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Copyright (c) 1993 - 2003 Compugen Ltd.
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Sequence 4, Application US Patent No. US20020128220A1

Application US/09944326

INFORMATION:

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ALIGNMENTS

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; LENGTH: 21
; TYPE: DNA
; ORGANISM: HUMAN
; PEATURE:
; OTHER INFORMATION: antisense TRPM-2 ODN
US-09-944-326-4
                                                                           Query Match
Best Local Similarity
Matches 21; Conserv
                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Ver. 2.1 SEQ ID NO 4
                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 09/913,325
PRIOR FILING DATE: 2001-08-10
NUMBER OF SEQ ID NOS: 14
                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 60/121,726 PRIOR FILING DATE: 1999-02-26
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CURRENT FILING DATE: 2001-08-30
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APPLICANT: Miyake, Hideaki
APPLICANT: Nelson, Colleen
TITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY
FILE REFERENCE: UBC. P-020-2
                                    1 CAGCAGCAGAGTCTTCATCAT 21
CAGCAGCAGAGTCTTCATCAT 21
                                                                           Conservative
                                                                                             100.0%; Score 21; DB 100.0%; Pred. No. 1.6;
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                                                                                                              DB 10;
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RESULT 2 US-09-967-726A-4

Sequence 4, Application US/09967726A

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9-825-294-15/c
quence 15, Application US/09825294
tent No. US20020004491A1
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ORGANISM: human
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                                                                                                                                                                                                                                                                                           THER INFORMATION: antisense TRPM-2 ODN
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FRENT APPLICATION NUMBER: US/10/080,794

RRENT FILING DATE: 2002-02-22

IOR APPLICATION NUMBER: 60/121.726

IOR APPLICATION NUMBER: 60/121.726

IOR APPLICATION NUMBER: 09/913,325

IOR APPLICATION NUMBER: 09/913,325

IOR FILING DATE: 2001-08-10
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TLE OF INVENTION: Chemo- and Radiation-Sensitization of Cancer by Antisense TRPM-2
TLE OF INVENTION: Oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MBER OF SEQ ID NOS: 15
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"LICANT: Miyake, Hideaki
"LICANT: Melson, Colleen
"LICANT: Melson, Colleen
"LICANT: Monia, Brett P.
"LICANT: Monia, Brett P.
"LICANT: MONIA, Brett P.
"LE OP INVENTION: HAVING 2'-O-(2-METHOXY) ETHYL MODIFICATIONS
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Miyake, Hideaki
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Pred. No.
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US-10-212-677-15/c

Sequence 15, Application US/10212677 Publication No. US20030129192A1

GENERAL

INFORMATION

lt, Ruth A.

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; FEATURE:
, NAMB/KEY: misc_feature
; LOCATION: 333 -
; OTHER INFORMATION: n = A,T,C or G
US-09-970-966-15
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LENGTH: 396
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Best Local Similarity
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CURRENT FILING DATE: 2001-10-02
NUMBER OF SEQ ID NOS: 215
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CURRENT APPLICATION NUMBER: US/09/825,294
CURRENT FILING DATE: 2001-04-03
NUMBER OF SEC. TO THE CONTROL OF SEC. TO THE CONTROL
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APPLICANT: Fling, Steven P.
APPLICANT: Xu, Jiangchun
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
FILB REFERENCE: 210121.484C6
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ORGANISM: Homo sapiens
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79 CAGCAGCAGAGTCTTCATCAT 59
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Fling, Steven P
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PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
APPLICANT: Hyseq, Inc.
ITTLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
ITTLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EQ ID NO 32172
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/10/212,677
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: misc_feature
LOCATION: 333
COTHER INFORMATION: n = A,T,C or G
10-212-677-15
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ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED TILE OF INVENTION: FROM VARIOUS CDNA LIBRARIES LE REPERENCE: 20411-756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ENGTH: 461
                                                                                                                                                                                                                                                                                                                Local
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Local Similarity 100.0%;
les 21; Conservative 0
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                                                                                                                                                                                                          CAGCAGCAGAGTCTTCATCAT 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAGCAGCAGAGTCTTCATCAT 59
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5. US20030073623A1
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Pred. No. 2
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US-09-918-995-12511/c

Sequence 12511, Application US/09918995 Publication No. US20030073623A1 GENERAL INFORMATION:

APPLICANT: HYSEQ, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
FILE REFERENCE: 20411-756

CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: US/09/235,076

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; OTHER INFORMATION: n = A,T,C or US-09-918-995-32177
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                                           Matches
                                                                            Query Match
                                                                                                                                                                                                                                                                   SOPTWARE: FastSEQ for Windows Version 3.0 SEQ ID NO 32177
                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
APPLICANT: Hyseq, Inc.
APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
FILE REFERENCE: 20411-756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 32177, Application US/09918995
Publication No. US20030073623A1
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                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 38054
                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/09/918,995
CURRENT FILING DATE: 2001-07-30
                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION NUMBER: US/09/235,076
PRIOR FILING DATE: 1999-01-20
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                                                                                                                                                                                                          ORGANISM: Homo sapiens
                                                                                                                                                                                                                                  TYPE: DNA
                                                                                                                                                                     NAME/KEY: misc_feature
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LOCATION: (1)...(462)
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1 CAGCAGCAGAGTCTTCATCAT 21
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                                                            Similarity
                                         Conservative
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19-918-995-31156/с
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blication No. US20030073623A1
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bblication No. US20030073623A1
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                                                                                                                                                                                                      PPLICANT: Hyseq, Inc.
ITLE OF INVENTION: NOVEL NUCLBIC ACID SEQUENCES OBTAINED
ITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME/KEY: misc_feature
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URRENT FILING DATE: 2001-07-30
RIOR APPLICATION NUMBER: US/09/235,076
RIOR FILING DATE: 1999-01-20
EATURE:
                                                                                                                                                               LE REFERENCE: 20411-756
JRRENT APPLICATION NUMBER: US/09/918,995
JRRENT FILING DATE: 2001-07-30
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Q ID NO 17455
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LOCATION: (1)...(490)
OTHER INFORMATION: n = A,T,C or G
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THER INFORMATION: n = A,T,C or G
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                                                                      ID NO 31156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity 100 es 21; Conservative
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                                                                                                                           APPLICATION NUMBER: US/09/235,076 FILING DATE: 1999-01-20
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21; Conservative
                                                                                      FastSEQ for Windows Version 3.0
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Pred. No.
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Pred. No.
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RESULT 14
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US-09-833-381-910/c
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                                                                                                                                                     SOFTWARE: PERL Program SEQ ID NO 214
                                                                                                                                                                                                                                                                                                                                                                               Sequence 214, Application US/10133013
Publication No. US20030166903A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SOFTWARE: PastSEQ for Windows Version 3.0 SEQ ID NO 910
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                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 60/287,067
PRIOR FILING DATE: 2001-04-27
NUMBER OF SEQ ID NOS: 271
                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/10/133,013
CURRENT FILING DATE: 2002-04-25
                                                                                                                                                                                                                                                                    APPLICANT: Bandman, Olga
APPLICANT: Cocks, Benjamin G.
TITLE OF INVENTION: GENES ASSOCIATED WITH VASCULAR DISEASE
FILE REFERENCE: PA-0049 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: 09/516,448 PRIOR FILING DATE: 2000-02-29
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CURRENT FILING DATE: 2001-04-11
                                PEATURE:
NAME/KEY: misc feature
NOTHER INFORMATION: Incyte ID No. US20030166903A1 474437.17
                                                                                                                                                                                                                                                                                                                                            APPLICANT: Astromoff, Anna
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ
                                                                                                                      TYPE: DNA
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TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                    ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PEATURE:
NAME/KEY: misc_feature
AME/KEY: unsure
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US20020132090Alel Nucleic Acid and Protein Homologs
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Pred. No. 2
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132.415 Million cell updates/sec
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US-09-659-791A-3
US-09-659-791A-13
US-09-659-791A-12
US-08-950-925-1
US-08-951-856-1
US-08-961-856-1
US-08-961-858-3
US-09-089-593-3
US-09-089-593-3
US-09-089-593-3
US-09-080-593-3
US-09-368-819A-1
US-09-368-819A-3
US-08-980-060-9
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US-08-485-657A-14

US-09-366-380-14

PCT-US95-02303-14
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			. م	φ.		148	1	56	56		393,	Sequence 17, Appl	Sequence 1242, Ap	Sequence 2815, Ap	Sequence 12, Appl	Sequence 6, Appli

ALIGNMENTS

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SEQUENCE CHARACTERISTICS:
LENGTH: 181 base pairs
TYPE: nucleic soid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-485-657A-19
          Matches
                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/08/485,657A

APPLICATION NUMBER: US/08/485,657A

FILING DATE: 07-JUN-1995

CLASSIFICATION: 800

ATTORNEY/AGENT INFORWATION:
NAME: No. 5942389nan, Kevin E

REGISTRATION NUMBER: 35,303

REFERENCE/DOCKET NUMBER: 39,354-N

TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Patent No.
                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compati
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE OF INVENTION: Genes and Genetic Elements Associated TITLE OF INVENTION: with Sensitivity to Cisplatin NUMBER OF SEQUENCES: 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Kirschling
APPLICANT: Gudkov, An
APPLICANT: Roninson,
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0, Version #1.25
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STATE: Illinois
                                                                                                                                                                                                                                                                      TELEFAX: 312-913-0002
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    ch 100.0%;
1 Similarity 100.0%;
21; Conservative 0
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Gudkov, Andrei
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  Score 21; DB 2
Pred. No. 0.96;
Mismatches
                                       DB 2; Length 181;
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0;
Gaps
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73 CAGCAGCAGAGTCTTCATCAT 53

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TITLE OF INVENTION: Gen-
TITLE OF INVENTION: with
NUMBER OF SEQUENCES: 25
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy d:
                                                                                                                                                      quence 18, Application PC/TUS9502303 ENERAL INFORMATION:
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APPLICATION NUMBER: US/09/366,380
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              MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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CLASSIPICATION:
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APPLICATION NUMBER: 08/199,900
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME: No. 6541603nan, Kevin
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 93
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300 South Wacker Drive, 32nd Ploor
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                                                                                                                                                                                                                                                                                                                                                                                                                                     linear
PatentIn Release #1.0, Version #1.25 (EPO)
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                                                                                                 Genes and Genetic Elements Associated with Sensitivity to Cisplatin
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                                                      Matches
                                                                    Query Match
Best Local
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                                                                                                                                                                                                            INFORMATION FOR SEQ ID NO:
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                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION DATA
                                                                                                                                                                                                SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
NAME: NO. 5942399nan, Kevin
REGISTRATION NUMBER: 35,303
REFERENCE/DOCKET NUMBER: 93
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
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TELEPHONE: 312-913-0001
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                                                                                                                                                   STRANDEDNESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
                                                                                                                                         TOPOLOGY: linear
                                                                                                                                                                    TYPE: nucleic
                                                                                                                                                                                                                                        TELEFAX: 312-913-0002
                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                             OPERATING SYSTEM:
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                                                                    ocal Similarity
                                                                                                                                                                                ENGTH:
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                                                      21;
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: Illinois
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                         CAGCAGCAGAGTCTTCATCAT 21
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                                                                                                                                                                              195 base pairs
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300 South Wacker Drive, 32nd Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181 base pairs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Roninson,
                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gudkov, Andre
                                                                                                                                                                                                                                                                                                                                                                                                            B: Floppy disk
IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
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                                                                 100.0%;
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100.0%; Pred. No. 0.96;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Igor B
                                                                                                                                                                                                                                                                                                                                                                 US/08/485,657A
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                                                                 Pred.
                                                                              Score 21;
67
                                                     Mismatches
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                                                                 0.97;
                                                                              DB 2; Length 195;
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Query Match
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SEQUENCE CHARACTERISTICS:
LENCTH: 195 base pairs
NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                       Quence 14, Application PC/TUS9502303
ENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION
                              SOFTWARE: Patentin Rel
CURRENT APPLICATION DATA:
                                                                                                                                  TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE/DOCKET NUMBER: 93
FELECOMMUNICATION INFORMATION:
TELEPHONE: 312-913-0001
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APPLICATION NUMBER:
PILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TURRENT APPLICATION DATA:
                                                            MPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                          Match 100.0%; S
Local Similarity 100.0%; F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TOPOLOGY:
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PLICANT: Gudkov, Andrei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LICANT: Roninson, Igor B
"LE OF INVENTION: Genes and Genetic Elements Associated LE OF INVENTION: with Sensitivity to Cisplatin
                                                                                                                                                                                                                                                                                                                                           1 CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nucleic acid
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                                                                                                                                            Genes and Genetic Elements Associated with Sensitivity to Cisplatin
                                                Release #1.0,
              PCT/US95/02303
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                                              Version #1.25 (EPO)
                                                                                                                                                                                                                                                                                                                                                                                                          4; Length 195;
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US-09-659-791A-13/c
; Sequence 13, Application US/09659791A
; Patent No. 6383808
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                 Query Match
Best Local Similarity
                                                                                                                                              NUMBER OF SEQ ID NOS: 90
SEQ ID NO 13
LENGTH: 1651
       Matches
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Matches
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LENGTH: 1648
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                                                                                                                                                                                           CURRENT FILING DATE:
                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/09/659,791A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Patent No.
                                                                                                                                                                                                                             TITLE OF INVENTION: ANTISENSE MODULATION OF CLUSTERIN EXPRESSION
                                                                                                                                                                                                                                                   APPLICANT: Brett P.
APPLICANT: Susan M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/09/659,791A
CURRENT FILING DATE: 2000-09-11
                                                                       NAME/KBY: CDS
LOCATION: (199)...(1545)
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                                                                                                                   ORGANISM: Homo sapiens
                                                                                                                                  TYPE: DNA
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                                                                                                       FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PEATURE:
NAME/KEY: CDS
LOCATION: (53)...(1402)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ITLE OF INVENTION: ANTISENSE MODULATION OF CLUSTERIN EXPRESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY: 1i MOLECULE TYPE:
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     Conservative
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                 100.0%;
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                 100.0%; Score 21;
100.0%; Pred. No. 1
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Pred. No. 1
  Mismatches
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                             DB 4;
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                            Length 1651;
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  Indels
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AGCAGAGTCTTCATCAT 21 ||||||||||||||| AGCAGAGTCTTCATCAT 196

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latches
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TITLE OF INVENTION: ANTISENSE MODULATION OF CLUSTERIN EXPRESSION
FILE REFERENCE: RTS-0156
CURRENT APPLICATION NUMBER: US/09/659,791A
CURRENT FILING DATE: 2000-09-11
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APPLICANT: Susan M. Frei
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
ORGANISM: Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: unsure
LOCATION: 5462
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                                                                                                                               PILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
                                                                                                                                                                                                       OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                       ZIP: 94304-1018
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                     CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
NAME: Axford, Leurie A
REGISTRATION NUMBER: 35,053
REFERENCE/DOCKET NUMBER: 32:
TELECOMMUNICATION INFORMATION:
                                                                          ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                   CITY: Palo Alto
                                                                                                              APPLICATION NUMBER:
                                                                                                                                                                                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                           MEDIUM TYPE:
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                                                                                                                                                                                                                                                                                                                                  USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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                                                                                                                                                                                                                                                        IBM Compatible
                                                                                                                                                                                                                                                                           Diskette
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                                                                                                                                                                                  US/08/950,925
                      32260-20004.20
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Pred. No. 1
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US-08-961-858-1/c
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                                                                                                                                                                                                                                                                                                                                                                                 US-09-565-286-1
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                                                                                                                                            Sequence 1, Application US/08961858 Patent No. 5834210
                                                                                                                                                                                                                                                                                                                                             Query Match
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                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                            Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: homo sapien FEATURE: NAME/KEY: CDS LOCATION: (1)...(633)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT FILING DATE: 2000-05-02
PRIOR APPLICATION NUMBER: 08/950,925
PRIOR FILING DATE: 1997-10-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION NUMBER: 08/730,111
PRIOR FILING DATE: 1996-10-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION NUMBER: US/09/565,286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: STABILIZED CONJUGATES OF UNCOMPLEXED TITLE OF INVENTION: SUBUNITS OF MULTIMERIC PROTEINS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Dave, Kirti I.
APPLICANT: Botyanszki, J
APPLICANT: Sintar, Eva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILB REFERENCE: 35574-22004.10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 633
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                                              CORRESPONDENCE ADDRESS:
                                                            APPLICANT: Liu, Shigui
APPLICANT: Shi, Qinwei
TITLE OF INVENTION: STI
NUMBER OF SEQUENCES: 6
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                                                                                                                               INFORMATION:
                                                                                                                                                                                                                                                                             1 CAGCAGCAGAGTCTTCATC 19
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Hackensack
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Botyanszki, Janos
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          411 Hackensack Avenue,
                                                                                                                                                                                                                                                                                                              Conservative
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                              Klauber & Jackson
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94.7%;
                                                                                STABLE TROPONIN SUBUNITS AND COMPLEXES
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Pred. No. 4
                                                                                                                                                                                                                                                                                                                              Score 17.4;
Pred. No. 4
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                                                                                                                                                                                                                                                                                                            Mismatches
               4th Floor
                                                                                                                                                                                                                                                                                                                                             DB 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 3;
                                                                                                                                                                                                                                                                                                                                             Length 633;
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Sequence 3, Appircus
Patent No. 5834210
GRNERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
TELEX: 133521
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 651 base pairs
TYPE: nucleic acid
                                                                   NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKST NUMBER: 11
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
                                                                                                                                                                                                          COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/961,858
                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Ploppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Liu, Shigui
APPLICANT: Shi, Qinwei
TITLE OF INVENTION: STABLE TROPONIN SUBUNITS AND COMPLEXES
NUMBER OF SEQUENCES: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOPTWARE: PatentIn Release #1.0, CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                        CLASSIFICATION: 435
TTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                         COUNTRY: (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ropology:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/08/961,858 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TBLEPAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1112-1-044 CIP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Jackson Bsq., David A. REGISTRATION NUMBER: 26,742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                  201-343-1684
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94.7%;
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Pred. No. 45
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US-09-089-593-1
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                                                          Matches
                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1, Application US/09089593 Patent No. 6060278
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Best Local &
                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO:
                                                                                                                              MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                         NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 1112-1-044 CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
                                                                                                                                                                                                                                                                                                                                                                             CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                         SOPTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION UMBER: US/09/089,593 FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                  TTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TUMBER OF SEQUENCES:
                                                                                                                                                                                                                                              TELEPHONE: 201-343-1684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                           TOPOLOGY:
                                                                                                                                                                       STRANDEDNESS
                                                                        Loca1
                                                                                                                                                                                                    ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CITY: Hackensack
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PLICANT: Liu, Shigui
PLICANT: Shi, Qinwei
TLE OF INVENTION: ST
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                                                                        Similarity
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CAGCAGCAGAGTCTTCAGC 162
                           CAGCAGCAGAGTCTTCATC 19
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                                                                                                                                                                                                  651 base pairs
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                                                    82.9%; Score 17.4; I
94.7%; Pred. No. 45;
cive 0; Mismatches
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94.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             No.
                                                                                DB 3; Length 651;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 2;
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INFORMATION FOR SEQ ID NO: 3
SEQUENCE CHARACTERISTICS:
LENGTH: 651 base pairs
TYPE: nucleic acid
STRANDEDRESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
DESCRIPTION: native form
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3ULT 15
-09-089-593-3/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    equence 3, Application US/09089593 atent No. 6060278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT: Liu, Shigui
APPLICANT: Liu, Shigui
APPLICANT: Shi, Qinwei
TITLE OP INVENTION: STABLE TROPONIN SUBUNITS AND COMPLEXES
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSE: Klauber & Jackson
STREST: 411 Hackensack Avenue, 4th Floor
CITY: Hackensack
STATE: New Jersey
                                                                                                                                                                                                                                                                                                                      NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REPERSNCE/DOCKET NUMBER: 1112-1-044 CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE: New Je:
COUNTRY: USA
ZIP: 07601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOPTWARE: PatentIn Release #1.0, Version #1.30 JRRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                             CILASSIFICATION:
IOR APPLICATION DATA:
APPLICATION NUMBER: 08/961,858
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US/09/089,593
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION:
                      Similarity
                                                                                                                                                                                                                                                                                                        201-343-1684
                                                                                                        ĕ
                                                                                                                      native form
                      Score 17.4;
Pred. No. 4:
    Mismatches
                                         DB 3; Length 651;
  1; Indels
Gaps
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irch completed: November 8, 2003, 01:50:57
i time : 71 secs

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Copyright

GenCore version 5.1.6 (c) 1993 - 2003 Compugen Ltd.

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it-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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:fect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2552756 seqs, 1349719017 residues
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Gapop 10.0 , Gapext 1.0
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/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1992.DAT:

/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1993.DAT:

/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1993.DAT:

/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1994.DAT:

/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1994.DAT:

/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1995.DAT:

/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1996.DAT:

/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:

/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:

/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:

/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:

/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:

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/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1980.DAT:*
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/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT:*
/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT:*
/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT:*
/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1986.DAT:*
/SIDS1/gcgdata/geneseq/geneseqn-emb1/NA1986.DAT:*
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	 AAA94226 5 AAT00416 1 AAC06940 2 AAF94824	ID

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3050	2445	2304	1201	963	960	552	520	460	448	446	426	426	418	417	416	414	414	413	389	379		366	50	,	7610	1712	1678	1651	1651	1648	1589	1568	1024	922	704	572
23	25	22	21	21	21	23	24	17	21	21	25	17	17	17	25	25	25	25	25	25	25	25	20	24	24	24	22	24	12	24	24	22	25	21	24	20
ABL10236	ACC46350	AAS45136	AAC45344	AAC42693	AAC45936	ABL10237	AAL46602	AAT64831	AAC10235	AAC42717	ABX40866	AAT64833	AAT64834	AAT64832	ABX43344	ABX45607	ABX37324	ABX37325	ABX48928 ·	ABX41456			Þ		ABN99665	ABS78651	AAH23086	ABN99666	AAQ11503	ABN99656	ABS78654	AAS44948	ABZ83527	AAA43857	ABQ56105	AAZ42136
 Drosophila melanor	Human ditho zinc f	3			Arabidopsis thalia	OD.		Coral cobra venom	Human secreted pro	Arabidopsis chalia	e EST a	cobra	cobra	cobra	EST.	EST	EST	TSE	EST	EST	EST		Ď,	Streptococcus polv	Human clusterid oe	Human cDNA encodin	Osteoarthritis tis	Human Clusterin Ge	Cytolysis Inhibito	Human clusterin ge	Human cDNA encodin	cDNA encoding nove	Toxicologically re	Human secreted exp	Human ovarian anti	Human normal bladd

ALIGNMENTS

PP	쏬뮸	Х	XX PA	X R	ξX	8 🗴	X P	8 X	ΧŞ	ğ	XX	ž Ż	ž č	RESULT 1 AAA94226 ID AAA XX
Treating prostatic tumors and renal cancers by antisense inhibition of the testosterone-repressed prostate messenger-2 gene -	WPI; 2000-533132/48.	Gleave M, Rennie PS, Miyake H, Nelson C;	(UYBR-) UNIV BRITISH COLUMBIA.	26-FEB-1999; 99US-0121726.	25-FRB-2000; 2000WO-US04875.	31-AUG-2000.	WO200049937-A2.	Homo sapiens.	sulfated glycoprotein-2; SGP-2; cancer; antisense ollgonucleotide; ss.	Human; testosterone-repressed prostate message-2; TRPM-2; clusterin.	Human testosterone-repressed prostate message-2 antisense oligo #2.	12-JAN-2001 (first entry)	AAA94226;	LT 1 4226 AAA94226 standard; DNA; 21 BP.

Treating prostatic tumors and renal cancers by antisense inhibition of the testosterone-repressed prostate messenger-2 gene -

Claim 3; Page 36; 38pp; English

human testosterone-repressed prostate message-2 (TRPM-2, also known as clusterin, sulfated glycoprotein-2 or SCP-2). The sequence was shown to promote the regression of tumours, and ollow conclectides directed at human TRPM-2 can be used in the treatment of tumour cells expressing the TRPM-2 gene. These include prostate cancer, renal cell cancer and some breast cancer cells. In addition to this, they also increase the chemosensitivity of the cells, meaning that conventional chemotherapy is present sequence is an antisense oligonucleotide directed effective known a

Sequence 21 BP; 6 A; 6 C; 4 G; 5 T; 0 other;

ery Match Local 21; Similarity Conservative 100.0%; <u>.</u> Score 21; DB Pred. No. 3.9; Mismatches DB 21; <u>,</u> Length Indels ٥, Gaps

CAGCAGCAGAGTCTTCATCAT 21 CAGCAGCAGAGTCTTCATCAT 21

AAT00416

AAT00416 standard; cDNA; 195 BP

26-MAR-1996 (first entry)

element HL7.1.

Genetic suppressor element; GSB; platinum-based drug; cisplatin; chemotherapy; HL7.1; testosterone-repressed prostatic message-2; TRPM-2;

Synthetic.

WO9522612-A2

24-AUG-1995

22-FEB-1995; 95WO-US02303.

22-FEB-1994; 94US-0199900.

(UNII) UNIV ILLINOIS FOUND.

Gudkov A, Kirschling 2 Roninson IB

Genetic suppressor elements which confer resistance to platinum-based drugs, eg. cisplatin, on cancer cells - useful for enhancement of chemotherapy, and for diagnosis of resistance to

Claim 14; Fig 17; 75pp; English

shows homology to the cDNA encoding testosterone-repressed prostatic message-2 (TRPM-2). These sequences were obtained from a cDNA library derived from the total cDNA of a cisplatin sensitive cell. Genetic suppressor elements confer resistance to platinum-based drugs (PDS), such as cisplatin. These functional GSEs can then be used to create probes for the parent gene. The probes can then be used in a method of measuring the level of GSE gene expression. The GSEs can be used in methods of diagnosis of resistance to PDs by measuring the level of expression of GSE genes. The GSEs are also used in methods to overcome resistance to PDs in cancer cells. The GSEs (or fragments of them) can The sequences represented by AAT00405-T00418 are genetic suppressor elements (GSBs). This sequence represents GSB HL6.10. This sequence This sequence

> S និនិនិនិនិនិន្និនិ Matches Query Match Best Local be used to inhibit the function of genes associated with sensitivity to PDs. For enhancement of chemotherapy, a GSE can be transferred (either alone or with another gene) on an expression vector into blood progenitor cells from a cancer patient. The cells are returned to the patients circulation and allowed to repopulate the blood before aggressive chemotherapy is carried out (using higher cisplatin concentrations than normal), this will thereby avoid toxic side effects to the immune system as the blood cells will be GSE resistant. Sequence 195 BP; 46 A; 45 C; 71 G; 33 T; 0 other; Similarity CAGCAGCAGAGTCTTCATCAT 21 Conservative 100.0%; Score 21; 100.0%; Pred. No. 0 Mismatches 5.2; DB 16; Length 195; <u>.</u> 0; Gaps 0

맑 67

0

RESULT 3 AAC06940/c

AAC06940 standard; cDNA; 275 BP

AAC06940

06-OCT-2000 (first entry

Human secreted protein 5' EST, SEQ ID NO: 11015

Human; 5' EST; expressed gene therapy; chromosome mapping; sequence tag; secreted protein; cDNA isolation

Homo sapiens

EP1033401-A2

06-SEP-2000

21-FEB-2000; 2000EP-0200610

26-FEB-1999; 99US-0122487

(GEST) GENSET

Dumas Milne Edwards J, Duclert A, Giordano

WPI; 2000-500381/45.

New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and fo diagnostic, forensic, gene therapy and chromosome mapping procedures for

Claim 1; SEQ ID 11015; 71pp + CD-ROM; English

The present sequence is one of a large number of 5' ESTs derived from mRNAs encoding secreted proteins. No ORF has yet been conclusively identified within the present sequence. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. RSTs sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from oligo-dT primed cDNA libraries. Such RSTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion vectors

Query Match Sequence 275 BP; 59 A; 88 C; 85 G; 43 T; 0 other;

100.0%; Score 21; BB 21; Length

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ULT 5
03091/c
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?94824/c
AAP94824 standard; cDNA; 396
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  Human; ovarian cancer; ovarian carcinoma; gene therapy; immunotherapy;
                                  Human ovarian carcinoma associated coding sequence SEQ ID NO:
                                                                   05-SEP-2002
                                                                                               ABT03091;
                                                                                                                     ABT03091 standard; cDNA; 396
                                                                                                                                                                                                                                                                                                          Sequence 396 BP; 129 A; 83 C; 121 G; 62 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                  The present invention provides a number of coding sequences and proteins, the over-expression of which is associated with ovarian carcinoma/cancer. These can be used in the diagnosis, treatment and prevention of ovarian cancer, optionally by gene therapy or in the form of a vaccine. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-SEP-199; 99US-0394374.
01-MAY-2000; 2000US-0561778.
15-AUG-2000; 2000US-0640173.
07-SEP-2000; 2000US-0656668.
                                                                                                                                                                                                                                                                                                                                           present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 18; Page 120; 189pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Isolated polypeptides associated with ovarian carcinomas, and the nucleic acids that encode them, useful for the prevention diagnosis and
                                                                                                                                                                                                                                                                                                                                                                                                                                                            treatment of ovarian cancers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-211395/21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-SEP-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ovarian cancer associated coding sequence SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     128
                                                                                                                                                                                                               1 CAGCAGCAGAGTCTTCATCAT 21
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                                                                                                                                                                                                                                                                   Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                    100.0%;
llarity 100.0%;
Conservative 0
                                                                 (first entry)
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tive 0; Mismatches
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                                                                                                                                                                                                                                                      0
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Pred. No. 5.7;
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                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                     one of these sequences
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ABL48774/C
ID ABL48774 standard; cDNA; 396 BP
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AC ABL48774;
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Best Local S
Matches 21
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                                                          01-MAY-2000;
15-AUG-2000;
07-SEP-2000;
14-NOV-2000;
                                                                                                                                                                                                                                                                   Ovarian cancer; cancer therapy; vaccine; gene therapy; tumour; cancer;
                                                                                                                                                                                                                                                                                                       Ovarian carcinoma
(XUJJ/) XU J.
(STOL/) STOLK J A.
(ALGA/) ALGATE P A.
                                                                                                                  10-SEP-1999;
                                                                                                                                             03-APR-2001; 2001US-0825294.
                                                                                                                                                                                                    US2002004491-A1
                                                                                                                                                                                                                                                                                                                                   18-JUN-2002
                                                                                                                                                                           10-JAN-2002.
                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 396 BP; 129 A; 83 C; 121 G; 62 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The present invention provides human ovarian cancer associated proteins and coding sequences. The sequences can be used in the diagnosis and treatment of ovarian cancers. The present sequence is a coding sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Novel ovarian cancer polypeptide and polynucleotide, useful for detecting the presence of ovarian cancer in a patient, and in pharmaceutical compositions, e.g. vaccines, for treating ovarian cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-NOV-2000; 2000US-0713550
03-APR-2001; 2001US-0825294
02-OCT-2001; 2001US-0970966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 1; Page 117; 197pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Xu J, Stolk JA, Algate
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                                                                      2000US-0640173.
2000US-0656668.
                                                                                                  2000US-0561778
                                                                                                                                                                                                                                                                                                                                (first entry)
                                                          2000US-0713550
                                                                                                                 99US-0394374.
                                                                                                                                                                                                                                                                                                     sequence
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ery Match
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New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures
                                                                                                                                                                                                        Dumas Milne Edwards J,
                                                                                                                                                                                                                                                                                                                       26-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                            21-FEB-2000; 2000EP-0200610.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human secreted protein 5'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   06-OCT-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 1; Page 43; 131pp; English.
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                                                                                                                                                                                                                                                                     (GEST ) GENSET
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                                                                                                                        2000-500381/45.
DB; AAG03745.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAGCAGCAGAGTCTTCATCAT 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP; 129 A; 83 C; 121 G; 62 T; 1 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                expressed sequence tag; secreted protein; cDNA isolation; chromosome mapping; ss.
                                                                                                                                                                                                                                                                                                                       99US-0122487.
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                                                                                                                                                                                                           Duclert
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Pred. No. 5.7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fling
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO: 3749.
                                                                                                                                                                                               Α,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                        Giordano
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 24; Length 396;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>,,</u>
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RESULT 8
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Best Local :
          The present sequence represents a human expressed sequence tag (I The polynucleotide, which is a secreted EST, and the encoded prot are predicted to have useful biological activities which would me them suitable for treating, preventing or ameliorating medical conditions in humans and animals, although no supporting data is
                                                                                                                                                                   New polynucleotides encoding human secreted proteins - derived e.g. human blood, kidney, foetal lung, placenta, testes, brain, ovary, pituitary, retina and colon cDNA libraries.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; secreted protein; expressed sequence tag; EST; haematopoiesis; tissue growth; activin; inhibin; chemotaxis; chemokinesis; haemostatic; receptor; ligand; thrombolytic; anti-inflammatory; cadherin; anti-tumou
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          often obtained from oligo-dT primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present sequence is one of a large number of 5' BSTs derived from mRNAs encoding secreted proteins. An ORF has been identified within the sequence: The 5' ESTs were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. BST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are
                                                                                                                                   Claim 1; Page 126; 618pp; English.
                                                                                                                                                                                                                                                   WPI; 1999-070077/06.
                                                                                                                                                                                                                                                                                            Agostino MJ,
Racie LA, S
                                                                                                                                                                                                                                                                                                                                                                                             10-APR-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                  10-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                        (GEMY ) GENETICS INST INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
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                                                                                                                                                                                                                                                                                        Spaulding V,
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                                                                                                                                                                                                                                                                                          Lavallie ER,
Treacy M;
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                                                                                                                                                                                                                                                                                                               McCoy JM,
                                                                       expressed sequence tag (EST).
EST, and the encoded protein
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given. Suggested activities include nutritional activity,

activities which would make

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This invention describes novel polypeptide fragment sequences (I) and their encoding nucleic acids (II) which are highly expressed in normal bladder tissue and have cytostatic activity. (II) are used for recombinant expression of (I) and to isolate complete genes. (I) are used to identify agents suitable for the treatment of bladder tumours, to directly treat this form of cancer (including expression from gene therapy vectors), or are used in a preparation for cancer treatment. (I) identified by assembling ESTs (expressed sequence tags) from a particular tissue type before comparison of expression patterns. This allows a significantly longer fragment of the gene to be revealed, and therefore reduces the number of failures because of ESTs from different libraries representing different parts of the same unknown gene distorting the estimated frequency of occurrence in a particular tissue. ARZ42122-Z42248 represent EST fragments derived from a human normal bladder tissue cDNA library which encode the protein fragments
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             nery Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1999-602416/52
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Rosenthal A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (META-) METAGEN GES GENOMFORSCHUNG MBH.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human normal bladder tissue cDNA derived EST 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polypeptides and their nucleic acids, useful for treatment of der tumour and identification of therapeutic agents
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lery Match

Sequence 572 BP; 161 A; 128 C; 186 G; 97

H,

100.0%;

Score 21;

DB 20; Length 572; 0 other; represented in

AAY60329-Y60591.

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The invention relates to 2175 novel human ovarian antigens (ABP41054-CC ABP43228) and to cDNAs encoding them (ABQ54131-ABQ56305), and also concompasses polypeptides 90% identical and polynucleotides 95% identical to the sequences of the invention. The invention additionally relates to recombinant vectors and host cells comprising human ovarian antigen polynucleotides, antipodies against human ovarian antigens, and the use of ovarian antigen polynucleotides and polypeptides in diagnosing, creating, prognosing or preventing various ovary and/or breast-related disorders. Such conditions include ovarian cancer and breast cancer, and disorders (e.g., infertility, disorders of pregnancy, anovulation, conjugate ovarian cysts, and dysmenorrhoea), endocrine polycystic ovary syndrome, ovarian cysts, and dysmenorrhoea), endocrine shock syndrome), inflammatory conditions (e.g., mastitis, outportis and cysinitis), immune disorders (e.g., congenital and acquired immunodeficiencies, autoimune opphoritis, systemic lupus erythematosus), crespiratory disorders (e.g., anaemia), cardiovascular disorders (e.g., and urinary system disorders, pastrointestinal disorders and urinary system disorders. Ovarian antigen polypeptides and conders and urinary system disorders. Ovarian antigen polypeptides and conders and con
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; SEQ ID No 1985; 2922pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Isolated nucleic acid molecules encoding novel ovarian polypeptides, useful in the prevention, treatment and diagnosis of cancer (e.g. ovarian cancer) immune disorders, cardiovascular disorders and neurological diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cardiovascular disorder; respiratory disorder; neurological disorder; gastrointestinal disorder; urinary system disorder; drug screening; gene therapy; chromosome mapping; forensic analysis; antibody preparation; cytostatic; immunoraniar.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Birse CE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            07-JUN-2000; 2000US-209467P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human ovarian antigen HSPSH41 cDNA, SEQ ID NO:1985.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABQ56105;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HUMA-) HUMAN GENOME SCI INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002-147878/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            196 CAGCAGCAGAGTCTTCATCAT 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    preparation; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGCAGCAGAGTCTTCATCAT 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gynaecological;
  also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
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in screening
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Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            immunomodulatory; neuroprotective,
for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>.</u>
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modulate ovarian antigen expression or activity. The polynucleotides may further be used for gene therapy, chromosome mapping, in the identification of individuals and in forensic analysis, and the polypeptides may be used as food additives or to prepare antibodies useful in disease diagnosis, drug targeting and phenotyping. The present sequence represents cDNA encoding a human ovarian antigen of the invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO ftp.wipo.int/pub/published_pct_sequences.

704 BP; 180 A; 197 C; 199 G; 121 T; 7 other;

ıtches ery Match Similarity Conservative 100.0%; 0 Score 21; Pred. No. Mismatches 6.1; DB 24; 0 Length 704; Indels 0, Gaps

0

CAGCAGCAGAGTCTTCATCAT 21

149 CAGCAGCAGAGTCTTCATCAT 129

TLT 11 .3857/c AAA43857 standard; cDNA; 922 BP

21-AUG-2000 (first entry)

Human secreted expressed sequence tag SEQ ID NO:432.

antiviral; antidiabetic; antiasthmatic; vulnerary; antiparkinsonian; antilicer; osteopathic; neuroprotective; nootropic; antipsoriatic; cerebroprotective; anticonvulsant; antidepressant; gene therapy; vaccine; autoimmune disorder; multiple sclerosis; allergic condition; insulin dependent diabetes; aschma; myeloid cell deficiency; ulcer; lymphoid cell deficiency; burn; osteoporosis; osteoarthritis; central nervous system disorder; Alzheimer's disease; stroke; tumour; infection; Parkinson's disease; Huntington's disease; coagulation disorder; haemophilia; thrombosis; inflammatory disorder; Crohn's disease; expressed sequence tag; EST; probe; chemotactic; proliferative; immunomodulatory; haematopoietic; chemokinetic; analgesic; haemostatic; thrombolytic; antinflammatory; cytostatic; antibacterial; antifungal; mouse; chicken; rat; secreted expressed sequence tag; sEST; depression; psoriasis; 88

sapiens.

WO200021991-A1

20-APR-2000

99WO-US24206.

15-0CT-1998; 98US-0104436.

(GEMY) GENETICS INST INC

Jacobs K, Merberg D, McCoy JM, Treacy M, LaVallie ER, Bowman MR; Collins-Racie Evans

WPI; 2000-317938/27

Isolated polynucleotides, and encoded proteins, comprising secreted expressed sequence tags (sESTs), useful for treating various disorders such as autoimmune, infectious, and central nervous system disorders -

Claim 1; Page 316; 803pp; English.

AAA43426 to AAA45925 represent specifically claimed secreted expressed sequence tags (sESTs), isolated from human, mouse, chicken and rat tissue sources. The sESTs can have a range of activities depending on

toxicological response to an agent, which comprises comparing expression profile of one or more human toxic response genes treference gene expression profile indicative of toxicity and determining the presence of a toxic response to the agent. Als

The present invention describes a method

(M1) for determining

esponse genes to toxicity, and so

80

u d the

Claim 1; Page 232; 455pp; English

RESULT 12 ABZ83527/c 밁 S 888888888888888888888888888888888 notropic; antiparkinsonian; antipsoriatic; cerebroprotective;

canticonvulsant; and antidepressant. The sESTs can be used for gene

cherapy and in vaccines The sESTs are useful as probes for the.

cidentification and isolation of full-length cDNAs and genomic DNA

conclecules which correspond to the sESTs. Proteins encoded by the sESTs

are useful in assays for determining biological activity and raising

cantibodies. They may be useful for treatment of autoimmune disorders of

cultiple sclerosis, insulin dependent diabetes), allergic conditions (asthma), myeloid or lymphoid cell deficiencies, wounds, burns, ulcers,

costeoporosis, osteoarthritis, central nervous system disorders of

costeoporosis, osteoarthritis, central nervous system disorders

costeoporosis, hackinson's, Huntington's disease, stroke), coagulation

condisorders (haemophilia, thrombosis), inflammatory disorders (Crohn's disease), tumours, bacterial, fungal or viral infections, depression and psoriasis. AAAA5926 to AAAA5931 represent linker variants which are given in the exemplification of the process. Matches Query Match Determining a toxicological response to an agent, useful for screening of drugs, comprises comparing the expression profile of one or more human toxic response genes to a reference gene expression profile indicative of toxicity -16-AUG-2002; 2002WO-US26514. Homo sapiens ABZ83527; ABZ83527 standard; cDNA; 1024 BP WPI; 2003-268322/26 Alen Neft RE, 16-AUG-2001; 2001US-313080P 27-FEB-2003 Toxicologically Toxicologically relevant human nucleotide sequence #686 14-MAY-2003 chemokinetic; analgesic; haemostatic; thrombolytic; antiinflammatory; cytostatic; antibacterial; antifungal; antiviral; antidiabetic; antidasthmatic; vulnerary; antiulcer; osteopathic; neuroprotective; the tissues they were isolated from. The activities include: chemotactic; proliferative; immunomodulatory; haematopoietic; (PHAS-) PHASE-1 MOLECULAR TOXICOLOGY INC. WO2003016500-A2 in the exemplification of the present invention. oca1 52 21; Similarity 922 BP; CAGCAGCAGAGTCTTCATCAT CAGCAGCAGAGTCTTCATCAT 21 Dunn RT, Conservative (first entry) relevant gene; toxicological response; gene; 243 A; 265 C; Adkins K, 100.0%; Ö Score 21; Pred. No. Pickett GG, 32 244 G; Mismatches 166 T; 4 other; 6.4; DB 21; Kier LD, <u>..</u> Length Indels Schmeiser depression and which are give 0, <u>.</u> Gaps are given 0

Novel polypeptides and nucleic acids obtained from cDNA libraries prepared from various human tissues, for diagnosis and treatment of cancer, neurological, inflammatory, and autoimmune disorders -

from the genes corresponding to the partial sequences given in ABZ82842 to ABZ84764, or their fragments of at least 20 nucleotides, or homologues; and (2) determining if a gene putatively identified to be a toxic response gene plays a role on toxic response pathways by determining the expression profile of the gene after exposure of cells or a human subject to a known toxic pharmaceutical or industrial agent, comprising: (a) exposing cells to an agent or isolating cells from a human subject who was exposed to an agent; (b) obtaining the test gene exposure to a known toxic pharmaceutical toxic response gene after exposure to a known toxic pharmaceutical or industrial agent; and (c) comparing the test profile to the expression profile of a gene with a similar function or comparing the test profile to the expression profile of that gene after exposure to other known toxic compounds. The methods are useful for predicting and determining toxicological responses on a cellular, organ or system level. The arrays comprising the human genes are useful for toxicological screening of drugs, pharmaceutical described: (1) an array comprising one or more polynucleotides selected

Sequence 1024 BP; 262 A; 299 C; 278 G; 185 T; 0 other;

Matches Query Match Best Local 21; Similarity Conservative 100.0%; Score 21; DB 25; Length 1024; 100.0%; Pred. No. 6.4; 0 Mismatches 6.4; 0 Indels 0; Gaps

AAS44948; AAS44948 standard; cDNA; 1568

18-DEC-2001 (first entry)

cDNA encoding novel human secretory protein, Seq ID No 29.

ischaemia-reperfusion injury; haematopoiesis; cancer; neuropathy; transgenic animal; Alzheimer's disease; Parkinson's disease; burn; amyotrophic lateral sclerosis; platelet disorder; thrombocytopenia; ulcer; osteoporosis; bone degenerative disorder; periodontal disease; gut protection; lung; liver fibrosis; immune deficiency; infection; severe combined immunodeficiency; SCID; autoimmune disorder; allergy; multiple sclerosis; rheumatoid arthritis; diabetes mellitus; asthma; Human, secreted protein; arthritis; Crohn's disease; sepsis; shock; fertility; analgesic; pain,

Homo sapiens

WO200166689-A2

13-SEP-2001.

05-MAR-2001; 2001WO-US04942.

07-MAR-2000; 2000US-0519705. 19-MAY-2000; 2000US-0574454. 17-JUN-2000; 2000US-0596193. 14-JUL-2000; 2000US-0616847.

(HYSB-) HYSEQ INC.

200005-0693267

Šį Liu C, Yang Y, Asundi V, Xı Drmanac RT, Xu C, Wehrn T, Zhang J, Wehrman T, Re Ren F, Z Ma Y, Wang, Zhou ٦,

WPI; 2001-589934/66. P-PSDB; AAU28048.

cc and remodeling. (I) (II) and modulators of (II) are useful for creating transgenic animals useful for studying the in vivo activities of the polypeptide as well as for studying modulators of the polypeptides. (I) induces the proliferation of neural cells and regeneration of nerve and brain tissue and is useful for treatment of central and complete the proliferation of neural cells and regeneration of nerve and brain tissue and is useful for the treatment of central and complete the proliferation of neural cells and regeneration of nerve and brain tissue and is useful for treatment of central and complete the proliferation of neural cells and regeneration of nerve and brain tissue and is useful for chemokinetic compriberations. (I) is involved in chemotactic or chemokinetic activity, regulation of haematopolesis and is useful for treating myeloid cor lymphoid cell disorders, platelet disorders such as thrombocytopenia cor issue growth, and in tissue, repair, healing of burns, incisions. (I) is sue growth, and in tissue, repair, healing of burns, incisions. (I) is also useful for gut protection or regeneration and treatment of lung or liver fibrosis, catabotism, osteoarthritis, bone degenerative disorders, for treatment of lung or liver fibrosis, corpertusion injury in various tissues, various immune deficiencies and conditions, such as asthma or or other respiratory problems. (I) addition, (I) affects biorhythms or other respiratory problems. (I) and the composition of corresponse and conditions, such as asthma or other respiratory provides analyseic effects or other pain reducing effects, immunoglobulin like and immune response. ARA44920-ARA45255 represent novel human secreted protein commune response. and polynucleotides (II). (I) and (II) are useful for treating inflammatory conditions such as arthritis, nephritis, Crohn's disease, ischaemia-reperfusion injury, shock, sepsis, immune responses, and is Claim 1; SEQ ID No 29; 107pp; English. involved in invention relates to novel isolated human secreted polypeptides (I) increasing haematopoiesis, stem cell survival, bone growth ing. (I), (II) and modulators of (II) are useful for or treatment of one or more cancers. (II) is also useful for

Sequence 1568 BP; 386 A; 456 C; 434 G; 292 T; 0 other;

Best Loc Matches Query Match ьосат 21; Similarity 100.0%; llarity 100.0%; Conservative 0 <u>,</u> Score 21; DB; Pred. No. 6.8; Mismatches DB 22; 0, Length 1568; Indels 0, Gaps

0

밁 δ 90 1 CAGCAGCAGAGTCTTCATCAT 21 CAGCAGCAGAGTCTTCATCAT 70

ABS78654 standard; cDNA; 1589 BP

(first entry)

Human cDNA encoding CGDD12, INCYTE 7503618CB1.

Human; ss; gene; cell growth; differentiation; death; CGDD; cancer; cell proliferative disorder; arteriosclerosis; atherosclerosis; cirrhosis; hepatitis; paroxysmal nocturnal haemoglobinuria; psoriasis; polycythaemia vera; primary thromobocytopaenia; developmental disorder; renal tubular acidosis; anaemia; mental retardation; epilepsy; AIDS; neurological disorder; Alzheimer disease; Parkinson's disease; asthma; reproductive disorder; Alzheimer disease; Parkinson's disease; asthma; inflammatory disorder; acquired immunodeficiency syndrome; uveitis; autoimmune thyroiditis; contact dermatitis; Crohn's disease; infection; diabetes mellitus; glomerulonephritis; irritable bowel syndrome; multiple sclerosis; osteoarthritis; osteoporosis; pancreatitis;

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polymicleotides, a cell transformed with the recombinant polymucleotide, a transgenic organism comprising the recombinant polymucleotide, an anti-CGDD antibody, screening for compounds which bind to/modulate or are ant/agonists of CGDD or alter the expression of CGDD polymucleotide and a CGDD polymucleotide microarray.

The polypeptides, polymucleotides, agonists and antagonists are useful for diagnosing, treating or preventing disorders associated with aberrant expression of CGDD, particularly cell proliferative (e.g. arteriosclerosis, atherosclerosis, cirhossis, hepatitis, paroxysmal nocturnal haemoglobinuria, polycythaemia vera, psoriasis, primary thromobocytopaenia or cancer), developmental disorders (e.g. renal tubular acidosis, anaemia or mental retardation, neurological disorders (e.g. Alzheimer disease, Parkinson's disease or epilepsy), reproductive disorders (e.g. infertility or a disruption in the menstrual cycle), or autoimmune/inflammatory disorders (e.g. AIDS, (acquired immunodeficiency syndrome) allergies, asthma, autoimmune thyroiditis. contact dermaritis. Crohn's disease, asthma, autoimmune
                                                                                                                                                                                                                                   uery Match
                                                                                                                                                                                                                                                                                                                                                                             thyroiditis, contact dermatitis, Crohn's disease, diabetes mellitus, glomerulonephritis, gout, irritable bowel syndrome, multiple sclerosis, osteoarthritis osteoporosis, pancreathitis, rheumatoid arthritis uveitis, or viral, bacterial, fungal, parasitic, protozoal or helminthic infections. They are also useful in the assessment of the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of proteins associated with CGDD. The present sequence encodes a CGDD protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ding L,
Lu DAM,
                                                                                                                                                                                                                                                                                            Sequence 1589 BP; 407 A; 421 C; 466 G; 295 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to an isolated polypeptide comprising CGDD1-12 (cell growth, differentiation and death), a naturally occurring amin acid sequence at least 90% identical to CGDD, a biologically active
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New human proteins associated with cell growth, differentiation and death, useful for diagnosing, treating or preventing autoimmune or inflammatory disorders (e.g. AIDS, allergy or anemia), cancer, atherosclerosis or hepatitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Yue H,
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23-PEB-2001; 2001US-271175P.
08-MAR-2001; 2001US-274503P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               polynucleotides encoding CGDD1-12, a recombinant polynucleotide comprising a promoter sequence operably linked to the CGDD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 5; Page 180-181; 181pp; English
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P-PSDB; ABG97361.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ragment or an immunogenic fragment. Also included are the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (INCY-) INCYTE GENOMICS INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200272830-A2
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                                                                                                                                                                                      Local
98
                                                                         1 CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2001US-274552P.
                                                                                                                                                                                      100.0%; Score 21; 100.0%; Pred. No.
                                                                                                                                                  0
                                                                                                                                                  Mismatches
                                                                                                                                                                                                                       DB 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a naturally occurring amino SDD, a biologically active
                                                                                                                                                                                                                       Length 1589;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Baughn MR;
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ABN99656/c

ID ABN99656 standard; DNA; 1648 BP.

XX

AC ABN99656;

XX

DT 16-AUG-2002 (first entry)

XX

DE Human clusterin gene sequence 1.

XX

KW Human; antisense inhibition; antise

KW hypercholesterolaemia; cardiovascu;

KW hypercholesterin such as hyperlipidemic d.

XX

DR P-PSDB; AAO15039.

XX

DR P-PS
Ś
                                                                                                                Query Match
Best Local Similarity
                                                                                Matches
                                                                                                                                                                                                                                                                                                                                The invention comprises antisense oligonucleotides that are capable of inhibiting expression of the human clusterin gene. The antisense oligonucleotides of the invention are useful for inhibiting the expression of clusterin in cells. The antisense oligonucleotides are also useful for treating an animal with a disease or condition associated with clusterin (e.g. hypercholesterolaemia; cardiovascular disorders; hyperproliferative disorders; and hyperlipidemic disorders). The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel antisense compound targeted to nucleic acid molecule encoding clusterin, useful for treating animal having disease associated with clusterin such as hyperlipidemic disorder, cardiovascular disorder
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; antisense inhibition; antisense oligonucleotide; clusterin; hypercholesterolaemia; cardiovascular disorder; ds; hyperproliferative disorder; hyperlipidemic disorder.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example 13; Page 89-92; 125pp; English.
                                                                                                                                                                                                                                                                                                    DNA sequence represents a human clusterin
                                                                        21;
                                                                            Conservative
                                                                                                    100.0%;
                                                                                                            .0%; Score 21; DB
                                                                        <u>,,</u>
                                                                        Mismatches
                                                                                                                                                                                                                            440 G; 312 T; 0 other;
                                                                                                                                            DB 24; Length 1648;
                                                                                                                                                                                                                                                                                                    gene sequence
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밁 1 CAGCAGCAGAGTCTTCATCAT 21 CAGCAGCAGAGTCTTCATCAT 53

Job time Search completed: November secs 8, 2003, 00:51:22

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It-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries
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rfect score:
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is the number of results predicted by chance to have a
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1: gb_ba: *

2: gb_htg: *

3: gb_in: *
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score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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cus	AR302789 181 bp mRNA linear PAT 12-, TITN-2003
FINITION	19 from patent US 6541603.
CESSION	AR302789
RSION	AR302789.1 GI:31691276
YWORDS	
URCB	Unknown.
ORGANISM	Unknown.
	Unclassified.
FERENCE	1 (bases 1 to 181)
AUTHORS	Kirschling, D.J., Gudkov, A. and Roninson, I.B.
LITLE	Genes and genetic elements associated with sensitivity to
	platinum-based drugs
JOURNAL	Patent: US 6541603-A 19 01-APR-2003;

Pred. No.

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Sequence 14 from patent US 6541603.
AR302784
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Edwards, J.B.D.M., Duclair, E. and Jordan, J.Y.
Sequence tag and encoded human protein
Patent: JP 2001269182-A 6931 02-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 (bases 1 to 195)
Kirschling,D.J., Gudkov,A. and Roninson,I.B.
Genes and genetic elements associated with sensitivity to
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Mammalia; Butheria; Primates;
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||tent: US 6541603-A 14 01-APR-2003;
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                                                           02-OCT-2001
24-FEB-2000 JP 2000118773
26-FEB-1999 US 60/122487
JEAN BAPUTIST DUMAS MILNE EDWARDS, BIMERIC DUCLAIR, JEAN YVES
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                                                                                                                                   Homo sapiens (human)
                                     2N15/09,C07K14/435,C07K16/18,C12N1/15,C12N1/19,C12N1/21, PC
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                                                    1 (bases 1 to 482)
Edwards,J.B.D.M., Jobert,S. and Giordano,J.B.
EST and encoded human protein
Patent: JP 2002010789-A 9400 15-JAN-2002;
GENSET CORP
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BST and encoded human protein.
BD117323
BD117323.1 GI 23212227
                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                                                                                                Homo sapiens
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AX093197
AX093197.1 GI:13509646
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                                                                                                                                                                            JP 2002010789-A/9400.
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
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Homo sapiens (human)
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                                    Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence tag and encoded BD027496
                                                                                                                                                                                                                                                                                                                                                           Patent: JP 2001269182-A 3742 02-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BD027496.1 GI:22569238
                                                                                                                                                                                                                                                                                                                                                                         equence tag and encoded human
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                                                                                                                                                                                                                  G06P15/40
                      Conservative
                                                                                                                                                                                                                                                                                                             Homo sapiens (human)
JP 2001269182-A/3742
02-OCT-2001
                                                                                                                                                                                                                                              C12N15/09, C07K14/435, C07K16/18, C12N1/15, C12N1/19, C12N1/21,
                                                                                                                                                     819_peptide
                                                                                                                                                                                        seq LLFVGLLLTWESG/QV
                                                                                                                                                                                                      score 6.3
                                                                                                                                                                                                                                                                    JEAN BAPUTIST DUMAS MILNE EDWARDS, EIMERIC DUCLAIR, JEAN YVES
                                                                                                                                                                                                                                                                                      24-FBB-2000 JP 2000118773
26-FBB-1999 US 60/122487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C12N5/10, C12P21/02, C12P21/08, C12Q1/68, C12N15/00, C12N5/00,
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                                                                              Location/Qualifiers
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
107 c 150 g 7
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Homo sapiens (human)
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                                                                                                                Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                       Homo sapiens cDNA FLJ36080
                                                                                                                                                                                   AK093399.1 GI:21752259
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C12N15/12, C12N5/10, C07K14/47, C12Q1/68, A61K38/17 CC Strai
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Secreted expressed sequence Patent: JP 2001519667-A 109
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Jacobs, K., Mccoy, J.M.,
Treacy, M., Spaulding, V.
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23-OCT-2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-APR-1998 JP 1998543069
10-APR-1997 US 08/838821
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /organism='Unidentified'
                                                                                                                                                                                                                                                                                                                                                                                                                   /db_xref="taxon:32644"
114 c 150 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                           organism="unidentified"
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Location/Qualifiers
1 .512
                                                                                                                                                                                                                                                                                                                                                                                                                                              type="genomic DNA"
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Pred. No. 31;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Submitted (04-JUL-2002) Takao Isogai, FLJ Project(HRI Team); 2-6-7 Kazusa-Kamateari, Kisarazu, Chiba 392-0812, Japan (E-mail:genomics@hri.co.jp, Tel:81-38-52-3975, Fax:81-438-52-3986) MEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology (RAB); cDNA library construction: Helix Research Institute (HRI) (supported by Japan Key Technology Center etc.); 5'- & 3'-end one pass sequencing: RAB, HRI, and Biotechnology Center, National Institute of Technology and
                                                                                                                                                                                                                                                               Proteins associated with cell growth, differentiation, and death Patent: WO 02072830-A 24 19-SEP-2002; Incyte Genomics, Inc. (US)
                                                                                                                                                                                                                                                                                                                    Yue.H., Yao.M.G., Ison.C.H., Lu,Y., Warren,B.A., Blliott,V.S., Baughn,M.R., Ding,L., Xu,Y., Gietzen,K.J., Tang,T.Y., Lal,P.G., Duggan,B.M., Burford,N., Lu,D.A., Richardson,T.W., Tran,U.K., Khare,R. and Walla,N.K.
                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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AX600212
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Location/Qualifiers
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Isogai,T. and Yamamoto,J.
Direct Submission
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                                     Conservative
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                                                                                                                                                                /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
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/clone_Tib="TESTI2"
/note="cloning_vector: pME188FL3"
/s56 c 410 g 285 t
                                                                                                                              /note="Incyte ID No: 7503618CB1"
421 c 466 g 295 t
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/mol_type="mRNA"
/db_xref="taxon:9606"
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Pred. No. 29;
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                                                                                                                                                                                                                                                                                                         Molecular characterization of human TRPM-2/clusterin, a gene associated with sperm maturation, apoptosis and neurodegener. Eur. J. Biochem. 221 (3), 917-925 (1994)
                                                                                                                                                                                                                                                                                                                                                                                                                                      Genomic organization and expression of the rat gene, a gene implicated in apoptosis
J. Biol. Chem. 268 (7), 5021-5031 (1993)
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Monia, B.P. and Freier, S.M.
Antisense inhibition of clusterin expression
Patent: US 6383808-A 3 07-MAY-2002;
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AR208704
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                                                                                                                                                                                                                                                                                           94237156
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TRPM-2 protein.
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/proteIn_id="AAB06508.1"
/db xxef="qI:339973"
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/txamblation="myntrilipyGillItwesgQVLGDQTVsDNELQEMSNQGSKYVNK
EIQNAVNGVKQIKTLIEKTNEERKTLLSNLEERAKKKRDALNETRESETKLKBLPGVC
NETPMALMEBCKECLKQTCMKEYARVCRSGSGLVGRQLEEFLNQSSFFYFMMAGDRID
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1. .1648
                                                                                                                                                                                      organism="Homo sapiens"
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                                                                                       gene="TRPM-2"
codon_start=1
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                                                                                                                                                                                                                                                                                                       sperm maturation, apoptosis . 221 (3), 917-925 (1994)
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1651)
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13 from patent US 6383808.
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GDDDRTVCRBIRHNSYGCLRMCOQCDKCRBILSVDCSTNNPSQAKLRRELDESLQVAE
RLTRKYNELLKSYQWKMLNTSSLLBQLMBQPNWVSRLANLTQGBDQYYLAVTTVASHT
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IQNAVNGYKQIKTLIEKTNEERKTLLSNLEEAKKKEDALNETERSETELKELPGYCN
ETMMALWEECHCYGYGKEYARVCRSGSGLYGRQLEEFLNQSSPFYEMANDERIS
LLENDRQYTHYLDVMQDHFSRASSIIDELFQDRFFTREPQDTYHYLPFSLPHRRPHFF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /codon_start=1
/product="blood plasma componenet having a biological
/product="blood plasma componenet having a biological
activity of inhibiting cytolysis mediated by a cytolytic
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1 (bases 1 to 1651)
Jenne, D.B. and Tschopp, J.

Molecular structure and functional characterization of a human complement cytolysis inhibitor found in blood and seminal plasma: identity to sulfated glycoprotein 2, a constituent of rat testis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        blood plasma glycoprotein; complement cytolysis secretory glycoprotein; seminal plasma protein; complement complex (C5b-9s) component.
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Draft entry and computer-readable sequence for [1] kindly submitted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Original source text: Human (adult) liver,
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89386692
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Monia,B.P. and Freier,S.M.
Antisense inhibition of clusterin ex
Patent: US 6383808-A 13 07-MAY-2002;
Location/Qualifiers
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Mammalia; Butheria; Primates; Catarrhini; Hominidae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ىو
                                                                               /translation="MKTLLLFVGLLLTWESGQVLGDQTVSDNELQEMSNQGSKYVNKE
IQNAVMGVKQIKTLIEKTNEERKTLLSNLEERAKKKEDALNETRESETKLKELFGVCN
STMAALMESCHCPLKQTVKTYARVCUSGSGLYGRQLEEFLAQSS PFYFMMAGDR I DS
LLENDRQQTHMLDVMQDHFSRASSIIDELFQDRFFTRSPQDTYHYLFFSLFHEREHFF
FFKSRLVRSLMFSPYFSPLEWHAMFQPFLEMIHEAQQAMDIHFHSPAFQHFPTEFIRB
GDDDRTYCRSIKHNSTGCLEMKDQCDKCREILSVDGSTNNFSQAKLRELDSSLQVAE
GDDDRTYCRSIKHNSTGCLEMKDQCDKCREILSVDGSTNNFSQAKLRELDSSLQVAE
SDSDVFSGYTEVVVKLFDSDFITVTVPVEVSRKNFKFMETVAEKALQEYRKKHREE"
/product="complement cytolysis inhibitor a-chain"
877. .1542
                                                                                                                                                                                                                                     /codon start=1
/protein_id="AAA35692.1"
/db_xref="GI:180620"
                                                                                                                                                                                                                                                                                                                                                  /organism="Homo sapiens"
/mol_type="mRNA"
                                              note="complement cytolysis inhibitor signal peptide"
                                                                                                                                                                                                                                                                                        note="complement cytolysis inhibitor precursor"
                                                                                                                                                                                                                                                                                                                              'db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                        ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism="unknown"
481 c 447 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                . 1651
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cDNA to mRNA, clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   linear PRI 27 mRNA, complete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              inhibitor; soluble terminal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Buteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRI 27-APR-1993
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                                                                                                                                                                                                                               NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: David N. Louis, M.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.B. Consortium (LLNL)
DNA Sequencing by: Baylor College of Medicine Human Genom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Strausberg, R.L., Feingold, B.A., Wagner, L., Klausner, R.D., Collins, F.S., Wagner, L., Altschul, S.F., Zeeberg, B., Buetow, K.H., Altschul, S.F., Tardam, H., Moore, T., Max, (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Submitted (19-DEC-2001) National Institutes of Health, Gene Collection (MGC), Cancer Genomics Office, Nationa Institute, 31 Center Drive, Room 11A03, Bethesda, MD 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens clusterin (complement lysis inhibitor, SP-40,40, sulfated glycoprotein 2, testosterone-repressed prostate message 2, apolipoprotein J), mRNA (cDNA clone MGC:24903 IMAGE:4915444),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 CAGCAGCAGAGTCTTCATCAT 21
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                                                            Gunaratne,
                                                                                              Web site: http://www.hgsc.bcm.tmc.edu/cdna/
Contact: amg@bcm.tmc.edu
                                                                                                                                                                              Center code: BCM-HGSC
                                                                                                                                                                                                                Sequencing Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Strausberg, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   human and mouse cDNA sequences Proc. Natl. Acad. Sci. U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Generation and initial analysis of more than 15,000 full-length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BC019588.1 GI:18043614
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Similarity 100.0%;
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atne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati, Gibbs, R.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              e cds
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481 c 447 g 318 t
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>.</u>
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Pred. No. 29;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99 (26), 16899-16903 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 9;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRI 17-APR-2003
SP-40,40,
                                                                                                                                                                                                                                                  Genome
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                                                                Ξ.
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Search completed: November Job time: 1412 secs

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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SG
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1 CAGCAGCAGAGTCTTCATCAT
                                                                 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 4502904.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                through the I.M.A.G.E. Consortium/LLNL
Series: IRAK Plate: 29 Row: m Column:
This clone was selected for full lengt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Clone distribution: MGC clone distribution information can be found
                                                                                         Similarity
                                                                                                                                                                              423
                                                                 Conservative
                                                                                                                                                                                                                    EGDDDRTTVCREIRHNSTGCLRMKDQCDKCREILSVDCSTNNPSQAKLRRELDESLQVA
ERLTRKYNELLKSYQWKMLNTSSLLEQLNEQPNWVSRLANLTQGEDQYYLRVTTVASH
                                                                                                                                                                                                                                                                                   /t-anslation="MMKTLLLPVGLLLTWESGOVLGDQTVSDNELQEMSNQGSKYVNK
EIQNAVNGVKQIKTLLEKTNEERKTLLSNLEBAKKKKEBDALMSTRESETKLKELPGVC
NETWAALMBECKPCLKQTCMKFYARVCRSGSETVLKGLLEBFLNQSSPFYFMONGOLDI
SLLENDRQQTHMLDVMQDHFSRASSIIDELFQDRFFTREPQDTYHYLPFSLPHRRPHF
                                                                                                                                                                                                                                                                                                                                                                             sulfated glycoprotein 2, testomessage 2, apolipoprotein J)"
/protein_id="AAH19588.1"
/db_xref="LocusID:1191"
                                                                                                                                                                                                   TSDSDVPSGVTEVVVKLFDSDP1TVTVPVBVSRKNPKFMBTVABKALQBYRKKHREB:
                                                                                                                                                                                                                                                                   ffpksrivrslmppspyeplnfhamfqpplemiheaqqamdihfhspapqhpptbpir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TRPM2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         lp/19q Toss"
/clone_lib="NCI_CGAP_Brn67"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      'product="clusterin (complement lysis inhibitor,
sulfated glycoprotein 2, testosterone-repressed )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                db_xref="MIM:185430"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          organism="Homo sapiens"
mol_type="mRNA"
db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note="synonyms: APOJ, CLI, SP-40, SGP-2; SGP2, TRPM-2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tissue_type="Brain, anaplastic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     clone="MGC:24903 IMAGE:4915444"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    note="Vector: pCMV-SPORT6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              lab_host="DH10B"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          xref="LocusID:1191"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1398
                                                                                    100.0%; Score 21; 100.0%; Pred. No.
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Email: cgapbs-romail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D.,
Emmert-Buck, M.D., Ph.D.
                                                                                                                         Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (Dases: 1 to 46)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
cDNA Library Preparation: M. Bento Soares, ph.D. cDNA Library Arrayed by: Greg Lennon, ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CCAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
                                                                                                         Tumor Gene Index
Unpublished
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similar to TR:Q15347 Q15347 RAGA. [1]
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ens cDNA clone IMAGE:1473356 3'
[1] ;, mRNA sequence.
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AII97165 ue52902.r AQ025388 EP(X):1109 BZ582545 3590_1 46 AJ545293 Drosophil AU10332 AU10332 AU103352 AU103352 AU107277 AU107277

Ph.D.,

Michael

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AA864073 VX88f02.r AU104442 AU104442 AZ305164 1M0005M08 AZ31559 1M0037N24 AA116347 mg70912.r B1246596 602958318 BX285461 Arabidops BH910804 SALK 0626 BZ566362 3590 1 16 H92446 YK89b05 1 16 H92446 YK89b05 12 AT107166 1M0588N12

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AL760945 Arabidops AL766391 wh61d04.x AA561123 v141cpl.r CB213634 OML03b14 AU105963 AU105963 AU105967 AU105967

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Hillier, Clark, N., Dubuque, T., Elliston, K., Hawkins, M., Holman
Hillier, L., Klark, N., Ee, M., Lennon, G., Marra, M., Parsons, J.,
Rifkin, L., Rohlfing, T., Soares, M., Tan, P., Trevaskis, E., Waterston
R., Williamson, A., Wohldmann, P. and Wilson, R.
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W25663

W25663

W25669:1 Soares fetal heart, NbHH19W Homo sapiens cDNA clone IMAGE:327110 5', sImilar to gb:X15183 cds1 HEAT SHOCK PROTEIN HSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16;
                                                                                                                                                                                   Email: est@watson.wustl.edu
This clone is available royalty-free through LINL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
Trace considered overall poor quality
Trace considered overall poor quality
                                                                                                                                                                                                                                                                                                                                                                                                  Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                     Tel: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                               Washington University School of Medicine
                                                                                                                                                                                                                                                                                                                                                                                Contact: Wilson RK
                                                                                                                                                                                                                                                                                                                                                                                                                       The Washu-Merck EST Project
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /clone="IMAGE:1473356"
/tissue_type="adenocarcinoma"
/lab_host="DH108"
                /mol_type="mRNA"
/db_xref="GDB:1261312"
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/db_xref="taxon:9606"
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0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Class: TDNA tagged
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tel: 858 453 4100 x1752 Fax: 858 558 6379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Salk Institute Genomic Analysis Laboratory (SIGnAL)
The Salk Institute for Biological Studies
10010 N. Torrey Pines Road, La Jolla, CA 92037, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Joseph R. Bcker
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Unpublished
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Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (bases 1 to 50)
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Jeske,A., Karnes,M., Kim,C.J., P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ecker@salk.edu
                  /Clone lib="Arabidopsis thaliana TDNA insertion lines"
/note="PCR was performed on Arabidopsis thaliana lines
each of which contains one or more TDNA insertion
elements. The resultant fragment for each line was
directly sequenced to determine the genomic sequence at
the site of insertion. Details of the protocols used can
be found at http://signal.salk.edu/tdna_protocols.html"
a 14 c 15 g 11 t
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/lab_host="PH10B (ampicillin resistant)"
/clone_lib="Soares fetal heart_NbH19W"
/note="Organ: heart; Vector: pT7T3D (Pharmacia)
modified_polylinker; Site_l: Not_I; Site_2: Eco
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                                                                                                                                                                                                                                                                                                                                                                             /organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
/strain="Columbia 0"
                                                                                                                                                                                                                                                                                                                 clone="SALK_087727"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ocation/Qualifiers
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Pred. No. 1.2e+04;
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Parker,H.,
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Prednis, L.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Seq primer: CACACAGGAAACAGCTATGACC Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meenen, B., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Weiss, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          High quality sequence stop: 21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Erro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tel: 801 585 5606
Pax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Plate: 0061
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mouse whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Unpublished
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GSS.
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Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae;
1 (bases 1 to 21)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AZ802584
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      308,
                            (http://www.lax.org/.resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polymucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pwp2 (gil 473214 | gb| AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to chemically-competent B. coli XL10-Gold (Stratagene) cells and selected for ampicilin resistance.
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                                                                                                                                                                                                                                                                                                                                                     musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
                                                                                                                                                                                                                                                                                                                                                                                 /lab host="B. Coli strain XL10-Gold, T1-resistant, F-"
(clone lib="Mouse lokb plasmid UUGCIM library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bex="Male
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     clone="UUGC2M0061I05"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       mol_type="genomic DNA"
strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  organism="Mus musculus"
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; Pred. No.
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UUGCIM library Mus musculus
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AA973632
43 bp mRNA linear EST 17-JUJ
0048b04.sl NCI CGAP Lu5 Homo sapiens cDNA clone IMAGE:1569391
similar to SW:XPE_CERAB P33194 POSSIBLE DNA-REPAIR PROTEIN XP
                                                                                                                                                                                  1 CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                          16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tel: 858 453 4100 x1752
Fax: 858 558 6379
Email: ecker@salk.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Arabidopsis Genome 
Unpublished
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mol_type="genomic
strain="Columbia (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GI:22721821
                                                                                                                                                                                                                                          61.9%;
76.2%;
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ORIGIN
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The Salk Institute for Biological Studies
10010 N. Torrey Fines Road, La Jolla, CA 92037, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Alonso, J.M., Leisse, T.J., Barajas, P., Chen, H., Cheuk, R., Gadrinab, C., Jeske, A., Karnes, M., Kim, C.J., Parker, H., Prednis, L., Shinn, J. Zimmerman, J. and Ecker, J.R.

A Sequence-Indexed Library of Insertion Mutations in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosid; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8H908888 41 bp DNA linear GSS SALK 051042.25.80.x Arabidopsis thaliana TDNA insertion Arabidopsis thaliana genomic clone SALK_051042.25.80.x,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This is single pass sequence recovered from the left border of TDNA. This sequence lies within an annotated exon of At5g58140.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Arabidopsis thaliana (thale cress)
                                                                                                                                                                             /clone="SALK_051042.25.80.x"
/clone lib="Arabidopsis thaliana TDNA insertion lines"
/clone lib="Arabidopsis thaliana lines"
/note="PCR was performed on Arabidopsis thaliana lines
each of which contains one or more TDNA insertion
elements. The resultant fragment for each line was
directly sequenced to determine the genomic sequence at
the site of insertion. Details of the protocols used or
be found at http://signal.salk.edu/tdna_protocols.html
                                                                                                                                                                                                                                                                                                                                                                                                                        db_xref="taxon:3702"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           organism="Arabidopsis
                                                                                                                                           http://signal.salk.edu/tdna_protocols.html"
9 g 12 t 1 others
                                  Score 13; I
Pred. No. 5.
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                           .9e+04;
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                                                                                                                                                 Arabidopsis thaliana T-DNA flanking genomic survey sequence.
AL948370.1 GI:24404992
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Insert Length: 703 Std Error: 0.00
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 1.
                                                                 Arabidopsis thaliana (thale cress)
Arabidopsis thaliana
Arabidopsis thaliana
Bukaryota; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
                                                                                                                                                                                                                                                                                                                                                                                             16;
and Weisshaar, B.
             Strizhov, N., Li, Y., Rosso, M., Viehoever, P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CDNA Library Preparation: M. Bento Soares, Ph.D. CDNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Clone distribution: NCI-CGAP clone distribution found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Emmert-Buck, M.D., Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: Robert Strausberg, Ph.D. Email: cgapbs-r@mail.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mRNA sequence.
AA973632
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NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /clone_lib="NCI_CGAP_Lu5"
/note="Organ: lung; Vector: pT7TiD-Pac (Pharmacia) with a modified polylinker; lst strand cDNA was prepared from neuroendocrine lung carcinoid, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library is normalized. Library was
                                                                                                                                                                                                                                                                                                                                                                                                                                                            pT7T3 vector. Library is increased. Constructed by Bento Soares and M. Patima Bonaldo.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  organism="Homo sapiens"
mol_type="mRNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ab_host="DH10B"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                          61.9%;
76.2%;
                                                II; Brassicales; Brassicaceae; Arabidopsis.
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                                                                                                                                                                                                                                                                                                                                                                                         Score 13; DB 9;
Pred. No. 6.1e+04
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                          6.1e+04;
                                                                                                                                                                                                                              DNA
                                                                                                                                                                                                         sequence
                                                                                                                                                                                                                                                                                                                                                                                                                       Length 43;
                                                                                                                                                                                                             linear GSS 24-OC
e GK-311H09-015792
              Dekker, K., Saedler, H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      information
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AL649065
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   16;
Email: trop@sanger.ac.uk
Sanger Xenopus tropicalis EST project 2001
TROPICALIS_SEQUENCE_ID: TGas034101.sp6
                                                                                                               Contact: Huckle B
Sanger Centre
                                                                                                                                                                                                                                                                                                                                                     Silurana tropicalis
                                                                                                                                                                                                                                                                                                                                                                                                                        AL649065.1 GI:17658059
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AL649065 XGC-gastrula Silurana tropicalis cDNA clone
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                                                                                Hinxton, Cambridgeshire,
                                                                                                                                                                   Unpublished
                                                                                                                                                                                    Huckle, B., Taylor, R., Ashurst, J.L., Sanger Xenopus tropicalis EST projec
                                                                                                                                                                                                                                                                                             Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
                                                                                                                                                                                                                                                                                                                                                                           Silurana tropicalis (western clawed frog)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Plant Genomics program designated 'GABI'. Information on availability can be found at: http://www.mpiz-koeln.mpg.de/GABI-Kat/:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       indicates an insertion close to or within gene At1g34110. The sequences are generated at the MPI for Plant Breeding Research in the context of the GABI-Kat project. GABI-Kat is part of the German
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Zuechtungsforschung, Carl-von-Linne-Weg 10, Koeln, 50829, Germany This sequence is recovered from the left border of the T-DNA. It
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Strizhov, N., Li, Y., Rosso, M. and Weisshaar, B. Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rosso, M., Strizhov, N., Li, Y., Reiss, B., Dekker, K. and We Arabidopsis thaliana T-DNA mutagenised population for flanking sequence tag based reverse genetics
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                                                                                                                                                                                                                                                                       (enopodinae; Silurana.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /clone_lib="Arabidopsis thaliana T-DNA insertion lines"
/note="PCR was performed on DNA from Arabidopsis thaliana
plants"(T1) which were transformed with the T-DNA from
vector pAC161. The lines contain one or more T-DNA
insertions. The DNA fragment(s) resulting from the PCR
were directly sequenced to determine the genomic sequence
flanking the insertion. Sequences displaying significant
similarity to the A. thalaina nuclear genome sequence were
processed for submission. T-DNA derived sequences were
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /organism="Arabidopsis thaliana"
/mol_type="genomic DNA"
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strain="Columbia 0"
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Pred. No. 6.5e+04;
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TGas034101 5',
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on (GABI-Kat)
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Best Local Similarity
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AU107924 Sugano Homo sap:
HRC02185, mRNA sequence.
AU107924
AU107924
AU107924.1 GI:13557446
EST.
                                    14;
                                                                                                                                                                                                                                Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedal, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
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Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hat, H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.

Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites

EMBO Rep. 2 (5), 388-393 (2001)
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This sequence is from a Xenopus
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        AGCAGCAGAGTCTTCA 17
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                                                                                                             /clone_lib="Sugano Homo sapiens cDNA library"
15 c 21 g 4 t
                                                                                                                                                           /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                 /clone="HRC02185"
                                                                                                                                                                                                                           Cocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /clone lib="XGC-gastrula"
/note="Vector: pCS107; Site 1: EcoRI; Site 2: NotI; cDN/
/note="Vector: pCS107; Site 1: EcoRI; Site 2: NotI; cDN/
was oligo dT primed from Sug of poly A+ RNA from stages
10-13 gastrulae. EcoRI NotI cut cDNA was then ligated
into pCS107 with EcoRI at the 5' end and NotI at the 3'
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/lab_host="Escherichia_coli XL1-blue"
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                                                  Score 12.8; DB 9;
Pred. No. 8.1e+04;
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Pred. No. 7.7e+04;
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1 (bases 1 to 50)
Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., H.
H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
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ZRV62348, mRNA sequence.
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                                                                                                                                                                                                                                                              Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Jar
Email: ysuzuki@ims.u-tokyo.ac.jp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 (bases I to 50)
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., H.,
Y., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakak.
Y., Nakamura,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
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HSI06916, mRNA sequence.
AU107925
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="HSI06916"
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Pred. No. 8.1e+04;
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                                                                                                                                                                                                                                                                                                                                                  Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano, S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).
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Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
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AU107929 Sugano Homo sapiens cDNA library
AU107929 mRNA sequence.
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Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Department of Virology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Yutaka Suzuki
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                                          AGCAGCAGAGTCTTCA 17
                   AGCAGCAGAGTCCGCA 44
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                                                                                               Conservative
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                                                                                                                                                                                             /clone_lib="Sugano Homo
                                                                                                                                                                                                                                                         /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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15 c 20 g 5 t
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/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                        /clone="ZRV62402"
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Pred. No. 0.1e+04;
                                                                                                              Score 12.8; DB 9;
Pred. No. 8.1e+04;
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Homo sapiens cDNA clone
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                                                                                                                                 Length 50;
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AL760945/c
                                                               AI766391/c
                                                                                         RESULT 14
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                                                                                                                                                    38
AI766391 43 bp
wh61d04.x1 NCT CGAP Kid11 Homo
similar to SW:COX2_HUMAN P00403
                                                                                                                                                                                                                                   15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Zuechtungsforschung, Carl-von-Linne-Weg 10, Koeln, 50829, Germany This sequence is recovered from the left border of the T-DNA. It indicates an insertion within the locus defined by clone t1097. The sequences are generated at the MPI for Plant Breeding Research in the context of the GABI-Kat project. GABI-Kat is part of the German Plant Genomics program designated 'GABI'. Information on line availability can be found at:

http://www.mpiz-koeln.mpg.de/GABI-Kat/.
                                                                                                                                                                                         2 AGCAGCAGAGTCTTCATCA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Rosso,M., Strizhov,N., Li,Y., Reiss,B., Dekker,K. and Weisshaar,B. A new Arabidopsis thaliana T-DNA mutagenised population (GABI-Kat) for flanking sequence tag based reverse genetics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3 (bases 1 to 39)
Rosso, M., Li, Y., S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A pipeline for automated high-throughput generation of FSTs (flanking sequence tags) from Arabidopsis thaliana T-DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AL760945.1 GI:21501350 GSS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Submitted (17-JUN-2002) Weisshaar B., Max-Planck-Institut fuer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            and Weisshaar, B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Strizhov, N., Li, Y., Rosso, M., Viehoever, P., Dekker, K., Saedler, H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Arabidopsis thaliana
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AL760945
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                                                                                                                                                                                                                                                                                                                                   removed"
a 12 c
                                                                                                                                                                                                                                                                                                                                                                   /clone_lib="Arabidopsis thaliana T-DNA insertion lines"
/notes"PCR was performed on DNA from Arabidopsis thaliana
plants (T1) which were transformed with the T-DNA from
vector pAC161. The lines contain one or more T-DNA
insertions: The DNA fragment(s) resulting from the PCR
were directly sequenced to determine the genomic sequence
flanking the insertion. Sequences displaying significant
similarity to the A. thalaina nuclear genome sequence were
processed for submission. T-DNA derived sequences were
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          organism="Arabidopsis thaliana"
|mol_type="genomic DNA"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       strain="Columbia 0"
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                                                                                                                                                                                                                                                    60.0%;
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Pred. No. 8.6e+04;
0; Mismatches 4
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    p mRNA linear EST 20-DEC-1999
sapiens cDNA clone IMAGE:2385223 3'
3 CYTOCHROME C OXIDASE POLYPEPTIDE II
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                                                                                                                                                                                                                            AA561123
A46 bp mRNA linear EST 18-AUG-199
V141C01.r1 Stratagene mouse skin (#937313) Mus musculus cDNA clone
IMAGE:974784 5' similar to TR:G972037 G972037 SUCCINATE
                                                                                                                                                                                                                                                                                                                                                                                                                     1. CAGCAGCAGAGTCTTCATC 19
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
1 (bases 1 to 46)
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T
                                                                                               Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         High
                                                                                                                                                                                       AA561123
                                                                                                                                                                                                     DEHYDROGENASE ;, mRNA sequence
                                                                                                                                                                                                                                                                               AA561123
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Seq primer: -40UP from Gibco
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                                                                                                                                                                  AA561123.1 GI:2332588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cDNA Library Preparation: M. Bento Soares, Ph.D. cDNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.B. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tissue Procurement: Christopher Moskaluk, M.D., Emmert-Buck, M.D., Ph.D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tumor Gene Index
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National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
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AI766391
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Mammalia, Butheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (human)
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/note="Organ: kIdney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; Plasmid DNA from the normalized library NCI CGAP Kid3 was prepared, and se circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-132391, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Patima Bonaldo. 21 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:2385223"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60.0%;
78.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 12.6; DB 9;
Pred. No. 9.1e+04;
0; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 43;
  Dietrich, N., Dubuque, T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
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                                                                                                                                                                                                                                                                        BST 18-AUG-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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ORIGIN
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46 CAGCATCAGATTCTGCAGC 28
                                                                              15;
                                     1 CAGCAGCAGAGTCTTCATC 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WashU-HHMI Mouse EST Project
Washington University School of MedicineP
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    weiset, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B. Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J. Schellenberg, K., Steptoe, M., Tan, F., Underwood,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                High quality sequence stop: 1.
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                                                                              Conservative
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                                                                                                                                                                                               'tissue_type="whole skin"
'dev_stage="11 weeks old"
'lab_host="SOLR (kanamycin resistant)"
                                                                                                                                                                                                                                                                                                                                                                                                    sex="females"
                                                                                                                                                                                                                                                                                                                                                                                                                         clone="IMAGE: 974784"
                                                                                                                                                                                                                                                                                                                                                                                                                                                            mol_type="mRNA"
strain="C57BL/6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      organism="Mus musculus"
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78.9%;
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Search completed: November '8,

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Job time : 1973 secs

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Listing first 45 summaries
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Sequence 6 from patent US
AR274120
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is the number of results predicted by chance to have a

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Takiguchi,H., Furukawa,H. and Tani,T.
Takiguchi,H., Furukawa,H. and Tani,T.
Takiguchi,H., Furukawa,H. and Tani,T.
PRODUCTION OF PANCERAS ELASTASE
Patent: JP 1987000276-A 9 06-JAN-1987;
SANKYO CO LTD NIPPON SODA CO LTD, NISSAN CHEM IND LTD, TOYO SODA
                                                                                                                                                                                                DNA seguence coding for human E01067
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA CODING FOR APHRODISIN Patent: WO 9319173-A 7 30 FORSSMANN WOLF GEORG (DE)
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Sequence 7 from Patent WO9319173.
A76301
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ammalia; Eutheria; Primates;
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homo sapiens (human)
JP 1987000276-A/9
06-JAN-1987
25-JUN-1985 JP 1985138494
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12 c 6 g
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/db_xref="GI:6088389"
/translation="MYKILLLALVPSLAHA"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       note="unnamed protein product"
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/db_xref="taxon:32644"
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0; Mismatches 3;
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                         4 CAGCAGAGTCTTCATCA 20
                                                                                                                                                                                                                                                                                                                                                                       Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
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Bovidae; Bovinae; Bos.
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topology: Linear;
hypothetical: No;
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                                                                                                          /codon_start=1
/product="somatctropin"
/protein_isomatctropin"
/protein_isomatctropin"
/protein_isomatctropin"
/db_xref="GI:410774"
/db_xref="GWISS-PROT:P01246"
/translation="LQFLSRVFTNSLV"
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
13 c 14 g 1
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peptide'.
Location/Qualifiers
                                                                                                                                                                                                         /db_xref="taxon:9913"
                                                                                                                                                                                                                                                                    ocation/Qualifiers
                                                                                                                                                                                                                              organism="Bos taurus"
mol_type="genomic DNA
                                                             73.3%;
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85.7%;
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                                                             Score 15.4;
Pred. No. 1.
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Pred. No. 7.6e+03;
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Sequence 46 from Patent WO0175165.
AX268965
AX268965.1 GI:16541984
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1 (bases 1 to 45)
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                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                         METHOD FOR THE PRODUCTION OF BOVINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Patent: WO 8701708-A 5 26-MAR-1987;
Location/Qualifiers
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Similarity 94.1%;
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                                                                                                                                                                                                                      /organism="synthetic construct"
/mol_type="genomic DNA"
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17 c 10 g 10 t
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/db_xref="taxon:9913"
13 c 8 g 1
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94.1%; Pred. No. 1.8e+04;
tive 0; Mismatches 1
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Pred. No. 1.9e+04;
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ACCESSION VERSION

AR070079 Sequence 35 AR070079 AR070079.1

35

31 bp 5891716.

linear

PAT 18-FEB-2000

GI:7220967 from patent US

SOURCE

ORGANISM

Unknown.

Unknown.

CEYWORDS

REFERENCE

Unclassified.
1 (bases 1 to 31)

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RESULT 9
AR070079/c
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AUTHORS
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Sequence
AX118356
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Genotyping reagents, kits and methods of use thereof
Patent: WO 0129262-A 3479 26-APR-2001;
Orchid BioSciences, Inc. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                  synthetic construct synthetic construct
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synthetic construct
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3479 from Patent WO0129262.
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8 c 4 g
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/note="Primer"
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|db_xref="taxon:32630"
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85.0%;
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Pred. No. 2.4e+04;
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Morgenstern, J.P., Bizinkauskas, C.B., Konieczny, A. and Brauer, A.W. Allergenic proteins and peptides from dog dander and uses therefor Patent: US 6489118-A 35 03-DEC-2002;
Location/Qualifiers
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  l Similarity
16; Conserva
                                                                                                                                                                                                                                   31 bp . Sequence 35 from Patent BP1277764. AX670795
                                                                                                                      Morgenstern, J.P., Konieczny, A., Bizinkauskas, C.B. Allergenic proteins and peptides from dog dander a Patent: EP 1277764-A 35 22-JAN-2003, Immulogic Pharmaceutical Corporation (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Morgenstern, J.P., Konieczny, A., Bizinkauskas, C.B. and Brauer, A.W. Allergenic proteins and peptides from dog dander and use therefor Patent: US 5891716-A 35 06-APR-1999;
Location/Qualifiers
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13 c 5 g
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1 (bases 1 to 39)

Harbour,G.C., Hoogerheide,J.G. and Garlick,R.L.
Enhanced bioactivity of mammalian somatotropin through selective
                                                                                                                                                                                                                                                                                                     oligonucleotide 3.
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THE UPJOHN COMPANY
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1 (bases 1 to 39)
                4 CAGCAGAGTCTTCATC 19
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Patent: WO 8701708-A 6 26-MAR-1987;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                        39 bp fragment of synthetic somatotropin.
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Patent: EP 0263206-A 7 13-APR-1988;
THE UPJOHN COMPANY
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A08491
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1 (bases 1 to 39)
Harbour,G.C., Hoogerheide,J.G. and Garlick,R.L.
Binhanced bloactivity of mammalian somatotropin through selective
CAGCAGAGTCTTCACC 27
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/db_xref="taxon:32630"
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Murine testosteron	AAA94223	21	21	70.5	14.8	8
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Polynucleotide sea	AAZ96146	21		72.4	15.2	o
Mouse IL-12 p40 #1	AAS15291	22	22	72.4	15.2	· v
Human mature inter	AAA11024	21		77.1	16.2	4
Gog-2 promoter gen	AAA09140	21	32	77.1	16.2	w
Interleukin-18 bin	AAX24790	20	50	84.8	17.8	N
Human testosterone	AAA94226	21	21	100.0	21	_
Description	DB ID	멾	Query Match Length DB ID	Match	Score	No.
IBS .	SUMMARIES			*		

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Treating prostatic tumors and renal cancers by antisense inhibition of the testosterone-repressed prostate messenger-2 gene - $\,$

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AAX25040	AAQ40995	ABK10729	AAA89796	AAS45666	AAX95224	AAS43508	AAF28289	AAF56658	AAF56656	AAF56654	AAF56649	AAQ47780	AAF28287	ABK14351	AAZ57675	AAT86354	AAX19511	AAF54315	AAA37209	AAC58495	AAF73404	AAX08676	AAF54314	AAA37208	AAC58494	ABK69555	AAZ31857	ABZ77331	AAX06964	AAH79384	ABK49118	ABL61345	AAQ69972	AAZ12445	AAH40683	AAA94224	1
Cyclin-dependent k	Annealing oligonuc	SVAO PT-DCB DYING	3' RT-PCR primer u	Human PARP-1 antic	PCR primer used to	Corneodesmosin sin	Modified Gcc donor	IL-11-IqG4-Fc dire	IL-11-IgG1-Fc dire		Human interleukin-	PCR primer Lam B8	Oligonucleotide 5'	3	Human G-alpha-12 a	primer 3		r #41 use	PRO1283		Grand fir monotern		n -	Human PRO1283 forw	Human PRO1283 (UNO	hasona		Nucleotide sequenc	Bacillus lichenifo	Plasmolemma regula	Human transcriptio	Naja naja atra sho	5'sense leader ex	PCR primer used to		Murine testosteron	

ALIGNMENTS

DR WPI; 2000-533132/48.	PI Gleave M, Rennie PS,	PA (UYBR-) UNIV BRITISH COLUMBIA.	26-FEB-1999;	PF 25-PEB-2000; 2000WO-US04875. XX	PD 31-AUG-2000.	PN WO200049937-A2.	OS Homo sapiens.				DT 12-JAN-2001 (first entry)	AC AAA94226;	XX AXA94226 SCANGARG; DNA; 21 BP.	SUI A94
	3, Miyaké H, Nelson C;	1 СОГЛИВІА.	9908-0121726.	-US04875.				sulfated glycoprotein-2; SGP-2; cancer; antisense oligonucleotide; ss.	Human; testosterone-repressed prostate message-2; TRPM-2; clusterin:	muman cescoscerone-repressed prostate message-2 antisense oligo #2.	entry)		UNA; 21 BP.	

Claim 3; Page 36; 38pp; English.

The present sequence is an antisense oligonucleotide directed at the human testosterone-repressed prostate message-2 (TRPM-2, also known as clusterin, sulfated glycoprotein-2 or SGP-2). The sequence was shown to promote the regression of tumours, and oligonucleotides directed at human TRPM-2 can be used in the treatment of tumour cells expressing the TRPM-2 gene. These include prostate cancer, renal cell cancer and some breast cancer cells. In addition to this, they also increase the chemosensitivity of the cells, meaning that conventional chemotherapy is

Sequence 21 BP; 6 A; 6 C; 4 G; 5 T; 0 other;

Matches Duery Match Local Similarity 21, Conservative 100.0%; 0; Score 21; DB: Pred. No. 3.9; Mismatches 21; Length 21; Indels 0 Gaps

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1 CAGCAGCAGAGTCTTCATCAT 21 CAGCAGCAGAGTCTTCATCAT 21

JULT 2 (24799/c AAX24790 standard; DNA; 50 BP.

AAX24790;

21-JUN-1999 (first entry)

Interleukin-18 binding protein splice variant IL-18BPa PCR primer.

Interleukin-18 binding protein; IL-18BP; IL-18BPa; splice variant; human; autoimmune disease; inflammation; diabetes; pancreatitis; rheumatoid arthritis; graft rejection; sepsis; chronic hepatitis; psoriasis; inflammatory bowel disease; multiple sclerosis; ischemic heart disease; ischemic brain injury; gene therapy; PCR; primer; ss.

Synthetic. Homo sapiens

WO9909063-A1

25-FEB-1999

13-AUG-1998; 98WO-IL00379

22-JUL-1998; 14-AUG-1997; 98IL-0125463. 97IL-0121554. 97IL-0121639. 97IL-0121860.

(YEDA) YEDA RES & DEV CO LTD 06-NOV-1997;

97IL-0122134.

Dinarello C, Ki a SH, Novick D, Rubinstein

New interleukin-18 binding protein - useful for treating diseases, including autoimmune disease and inflammation - useful for treating human

Example 7; Page 39; 100pp; English

The present sequence is a reverse primer that was used with a forward primer (see AAX24754) in the PCR amplification of the coding region of a cDNA-clone (see AAX24749) coding for human interleukin-18 binding protein splice variant II-18BPa (see AAW98004). The PCR products were cut with XbaI and cloned into the XbaI site of the pBFP-BOS expression vector. IL-BP18a was expressed in transfected

Sequence 32

BP; 8

A; 12 C;

6 G;

6 T; 0 other;

Score 16.2; DB 21;

Length 32;

RRESULT 3
AAAO9140
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XX AAAO
XX AAAO
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XX Zea
XX Yeg
XX W020
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C 밁 Ś ននិនិនិនិនិនិ Matches Query Match Clontech primer API (AAA09138) and a gene-specific primer 1 (AAA09139-42) in a second round of PCR using Clontech primer AP2 (AAA09133) and a gene-specific primer 2 (AAA09144-47). Clones were sequenced for verification and then amplified with Clontech primer AP3 (AAA09148) and a gene-specific primer (AAA09149-52). The promoters are used for regulating the expression of heterologous nucleotide sequences to vary the phenotype of a plant, e.g. modifying fatty acid composition, altering amino acid content and altering the pathogen defense system of the plant. Plants comprising important commercial traits can be Novel maize promoters (AAA09134-37) that drive expression of actin-2, enolase, Gos-2 or L41, respectively, were isolated from genomic DNA using PCR. The first round of PCR was performed on each DNA sample using PCR. The first round of PCR was performed on each DNA sample with maize; promoter; actin-2; enolase; Gos-2; L41; gene regulation; plant transformation; primer; ss. COS7 cells. The invention provides IL-18BP polypeptides capable of binding IL-18 and/or modulating and/or blocking IL-18 activity. These can be used to treat conditions requiring the protein (claimed), such as autoimmune diseases, type I diabetes, rheumatoid arthritis, graft rejections, inflammatory bowel disease, sepsis, multiple sclerosis, ischemic heart diseases, ischemic brain injury, chronic hepatitis, psoriasis, and chronic/acute pancreatitis. Novel maize promoters used for producing transgenic plants with regulated expression of heterologous nucleotide sequences 06-OCT-1998; 05-NOV-1998; AAA09140 standard; DNA; 32 Example 1; Page 26; 48pp; English. Barbour B, 05-OCT-1999; 13-APR-2000. Gos-2 promoter gene-specific primer 1. 10-AUG-2000 AAA09140 WO200020571-A2 Sequence 50 BP; 13 A; 8 C; 13 G; 16 T; 0 other; (PION-) PIONEER HI-BRED INT INC Local Similarity 42 19; Conservative AGERI AGRIC GENETIC ENG RES INST. CAGCAGCAGGGTCATCATCAT 22 CAGCAGCAGAGTCTTCATCAT 21 Meyer TE, (first entry) 98US-0103294. 98US-0107201. 99WO-US23081 90.5%; 0; Mismatches Score 17.8; DB 2 Pred. No. 1.2e+02 DB 20; Indels Length expression; 0; Gaps 0

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atches
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AAS15291;
                                                                                                                                                                                                                                                                                                  Sequence 50 BP; 7 A; 11 C; 18 G; 14 T; 0 other;
                                                                                                                                                                                                                                                                                                                                  The invention relates to novel interleukin 18 (IL-18)-binding proteins from humans or mice which act as regulators and drugs for sensitivity diseases and organ rejection and in treating diseases due to excess immune reaction, e.g. in slowing down rejection after organ transplant, and in treating autoimmune diseases. This sequence represents a PCR primer used to isolate the coding sequence for the human mature interleukin 12 binding protein (AAAI1002).
                                        AAS15291 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Interleukin 18-binding protein with activity of regulating physiological actions of interleukin 18, useful as regulator and drug for sensitivity diseases and organ rejection and in treating diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2; Page 22; 71pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Torigoe K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       09-MAR-2000.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          regulator; drug; sensitivity disease; organ autoimmune disease; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 regulator;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Immunosuppressant; interleukin 18 binding protein; IL18-BP; human; mouse;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human mature interleukin 18 binding protein coding sequence primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAA11024 standard; DNA; 50 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (HAYB ) HAYASHIBARA SEIBUTSU KAGAKU.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-JUL-2000
                                                                                                                                                                                                                                           Local Similarity
                                                                                                                                            44
                                                                                                                                                                                                                          18;
                                                                                                                                                               1 CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                       CAGCAGCAGGGTCATCACCAT 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAGCACCAGAGTCCTCAGCAT 23
                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Taniai M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98JP-0247588.
98JP-0327914.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           98WO-JP05186.
                                    DNA;
                                                                                                                                                                                                                                         77.1%;
85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       reaction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       85.7%;
                                      22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kurimoto M;
                                      ВP
                                                                                                                                                                                                                    0,
                                                                                                                                                                                                                                       Score 16.2;
Pred. No. 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 5.9e+02;
                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                       6.3e+02;
                                                                                                                                                                                                                                                        DB 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rejection; organ transplant;
                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                        Length 50;
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16-JAN-2002

(first entry)

Polynucleotide sequence including binding site for BamHI.

10-APR-2000

(first entry)

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RESULT 6
AAZ96146/c
ID AAZ961
XX AAZ961
XC
AC AAZ961
XX
DT 10-APR
XX
DE Polynu
XX
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                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 17; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              relative to controls. The markers are interleukin-lbeta (IL-lb), tumour necrosis factoralpha (TNFalpha), macrophage inflammatory protein-lalpha (MIF-lalpha), glial fibrillar associated protein (GPAP), MHC (major histocompatibilty complex) IIalpha or II I, CD86, fractalkane or CX3CR1 (a receptor for fractalkane). The method is used to identify compounds useful in treatment or prevention of Alzheimer's disease or other neurodegenerative diseases that have an inflammatory component. The
                                                                                           AAZ96146;
                                                                                                                             AAZ96146 standard; DNA; 40
                                                                                                                                                                                                                                                                                                                                                                                                                  method provides fast, accurate and quantitative drug screens. The present sequence is a PCR primer used to determine the level of a transcript for an efficacy marker in a transgenic mouse which overexpresses APP and displays Alzheimer's like neuropathy. The efficacy markers are VitD3-240Hase, MCP-1, IL-10, IL-12 p40, #1/#2, IFN-gamma #1/#2, CD3 epsilon, CD4 #1/#2, IgG-1, Ig k (light chain).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates selecting compounds that reduce symptoms of Alzheimer's disease using a non-human mammal that has been subjected cerebral ischaemia or lesion of a nerve so as to produce, in the affected region, increased levels of specific markers of Alzheimer's disease-associated inflammation. Test compounds are selected if they
                                                                                                                                                                                                                                                                                                                                                                                          Sequence 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       disease, from their abilimarkers in animal models
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Selecting compounds useful for treating or preventing Alzheimer's disease, from their ability to reduce levels of specific disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         reduce levels of these markers significantly, in the affected region,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 5; Page 23; 36pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2001-639367/73.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TNFalpha; macrophage inflammatory protein-lalpha; MIP-lalpha; fractalkane; glial fibrillar associated protein; GFAP; MMC; CX3CR1; CD86; major histocompatibilty complex; Alzheimer's disease; cerebral ischaemia; neurodegenerative disease; VitD3-24OHase; MCP-1; IL-10; IL-12 p40; IFN-gamma; CD3 epsilon; CD4; IgG-1; Ig k; osteopontin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-MAR-2000; 2000US-193847P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            30-MAR-2001; 2001WO-US10247.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11-OCT-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200175165-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mouse IL-12 p40 #1 PCR primer 662F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antiinflammatory;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ELAN-) ELAN PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ss; PCR primer; nootropic; neuroprotective; flammatory; interleukin-lbeta; IL-1b; tumour
                                                                                                                                                                                                                                                        CAGCAGCAGAGTCTTCATCA 20
                                                                                                                                                                                                                              CAGCACCAGCTTCTTCATCA 21
                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                  BP; 6 A; 8 C; 3 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Games
                                                                                                                                                                                                                                                                                                                             85.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Yednock TA,
                                                                                                                                                                                                                                                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                         Score 15.2; DB 22;
Pred. No. 1.6e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hua T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Messersmith E, Bard
                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       662F;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               necrosis factoralpha;
                                                                                                                                                                                                                                                                                                                                           22;
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                                                                                                                                                                                                                                                                                                     Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the same polynucleotide ligand binding site and a randomly synthesised sequence flanking the binding site; (ii) exposing the duplex to a ligand selective for the binding site; (iii) isolating duplexes which bind or do not bind the ligand, and (iv) determining the nucleotide composition of the flanking duplex sequence by sequencing the duplex sequence adjacent to the binding site. The invention is used to modulate the ligand-binding characteristics of any nucleotide sequence. The invention is less costly and more efficient than prior art techniques that moderate ligand binding using small molecule pharmaceuticals. Sequences analysis costly expresent polynucleotide sequences including the binding site for the restriction enzyme BamHI and used in the course of the
                                                                                                                                                                                        Hexapetoloid duplicon inclusion transferase 14.96; transferase; enzyme; tumour; haemopathy; HIV infection; immunological disease; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention provides a method for determining the sequence of polynucleotide flanking regions that modulate ligand binding characteristics of an adjacent binding site. The method comprises:
05-JUN-2002
                                                      CN1352267-A.
                                                                                                            Unidentified
                                                                                                                                                                      cytostatic; anti-HIV;
                                                                                                                                                                                                                                                                                Hexapetoloid duplicon inclusion transferase 14.96 PCR primer #3
                                                                                                                                                                                                                                                                                                                                               18-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                         ABQ80863;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABQ80863 standard; DNA; 33 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 40 BP; 6 A; 5 C; 19 G; 10 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 1; Page 45; 62pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Modulating polynucleotide ligand binding site affinity using determination of the flanking duplex sequences -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Lane MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                04-JUN-1998;
03-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-JUN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO9963077-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              providing a number of different duplex polynucleotides, each having
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGCAGCAGAGTCTTCATCA 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                               (first entry)
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99US-0324672.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     99WO-US12516.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      85.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
                                                                                                                                                                immunological discory; PCR; primer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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RESULT 8
AAA94223
ID AAA9
XX AAA9
XX AAA9
XX AAA9
XX MOUS
XW MUTI
XX MOUS
XW SULE
XX MUS
YH KCY
FH KCY
FH KCY
FT modi
FT modi
FT W020
XX U700
XX U700
XX W01;
XX W01;
XX W01;
XX W020

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Example 1; Page 35; 38pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Key
modified_base
                                                    Treating prostatic tumors and renal cancers by antisense inhibition the testosterone-repressed prostate messenger-2 gene -
                                                                                                                                                                                                                                                                                                                                                  25-FEB-2000; 2000WO-US04875
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mouse; testosterone-repressed prostate message-2; TRPM-2; clusterin; sulfated glycoprotein-2; SGP-2; cancer; antisense oligonucleotide; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Murine testosterone-repressed prostate message-2 antisense oligo #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAA94223 standard; DNA; 21 BP
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                                                                                                                                        WPI; 2000-533132/48.
                                                                                                                                                                                       Gleave M,
                                                                                                                                                                                                                                                                                                26-FEB-1999;
                                                                                                                                                                                                                                                                                                                                                                                                          31-AUG-2000.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAA94223;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 33 BP; 10 A; 8 C; 7 G; 8 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The present invention relates to hexapetoloid duplicon inclusion transferase 14.96 (see ABQ80860 and ABB98545). The transferase and coding sequence are useful for treating various diseases, such as mailgnant tumours, haemopathy, HIV infection, immunological diseases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mao Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02-NOV-2000; 2000CN-0127170
                                                                                                                                                                                                                                           (UYBR-) UNIV BRITISH COLUMBIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            was used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 4; Page 18 (Disclosure); 33pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2002-628715/68.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02-NOV-2000; 2000CN-0127170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (BODE-) BODE GENE DEV CO LTD SHANGHAI.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       various
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAGAGTCTTCATCAT
                                                                                                                                                                                       Rennie PS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      inflammations. The present sequence is a PCR primer, which an example from the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                99US-0121726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    *tag= a
/mod_base= OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           note= "phosphorothicate backbone"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     71.4%;
                                                                                                                                                                                       Miyake H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 15;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                       Nelson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2.1e+03;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              immunological diseases
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some breast cancer cells. In addition to thi chemosensitivity of the cells, meaning that murine testosterone-repressed prostate message-2 (TRPM-2, also known as clusterin, sulfated glycoprotein-2 or SGP-2). The sequence was shown to promote the regression of tumours in mice, and oligonucleotides directed at human TRPM-2 can be used in the treatment of tumour cells expressing the TRPM-2 gene. These include prostate cancer, renal cell cancer and some breast cancer cells. In addition to this, they also increase the The present sequence is an antisense oligonuclectide directed at the effective conventional chemotherapy

Sequence 21 BP; 7 A; 5 C; 5 G; 4 T; 0 other;

Matches Best Local Similarity Query Match 16, Conservative 70.5**%**; 0; Score 14.8; DB Pred. No. 2.4e+ Mismatches 2.4e+03; 2; Indels Length 21; 0 Gaps

0;

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CAGCAGCAGAGTCTTCAT 18 CAGCAGGAGAATCTTCAT 21

AAA94224 standard; DNA; 21 BP

AAA94224;

12-JAN-2001 (first entry)

Murine testosterone-repressed prostate message-2 antisense control.

Mouse; testosterone-repressed sulfated glycoprotein-2; SGP-2 SGP-2; prostate message-2; cancer; oligonucleotide; ss. TRPM-2; clusterin;

de enw

WO200049937-A2

31-AUG-2000.

25-FEB-2000; 2000WO-US04875

26-FEB-1999; 99US-0121726

(UYBR-) UNIV BRITISH COLUMBIA

Į, Rennie PS, Miyake H, Nelson C;

WPI; 2000-533132/48.

Treating prostatic tumors and renal cancers by antisense inhibition the testosterone-repressed prostate messenger-2 gene -

Example 1; Page 35; 38pp; English.

oligonucleotide directed at the murine testosterone-repressed prostate message-2 (TRPM-2, also known as clusterin, sulfated glycoprotein-2 or SGP-2). The antisense sequence was shown to promote the regression of tumours in mice, and similar oligonucleotides directed at human TRPM-2 can be used in the treatment of tumour cells expressing the TRPM-2 gene. These include prostate cancer, renal cell cancer and some breast cancer cells. In addition to this, they also increase the chemosensitivity of The present sequence is a mismatch control used with an antisense oligonucleotide directed at the murine testosterone-repressed promeaning that conventional chemotherapy is more effective

Sequence 21 BP; 6 A; 6 C; 5 G; 4 T; 0 other;

latches nery Match Local 16; Similarity Conservative 70.5**%**; . Score 14.8; DB 21; Pred. No. 2.4e+03; Mismatches ν, Length Indels 21; 0 Gaps

0

CAGCAGCAGAGTCTTCAT 18

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밁
4
CAGCAGCAGGATCTTCAT 21
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RESULT 10 AAH40683/c

AAH40683 standard; DNA; 27

AAH40683;

14-AUG-2001 (first entry)

\$\$\$\$ SNP specific SNPB primer SEQ ID 3479.

Lesch-Nyhan syndrome; muscular dystrophy; familial hypercholesterolaemia; polycystic kidney disease; osteogenesis imperfecta; autoimmune disease; acute intermittent porphyria; rheumatoid arthritis; multiple sclerosis; SNPE; genotyping; Single nucleotide polymorphism; inflammation; forensic investigation; paternity polymorphism; SNP; single nucleotide primer extension; agammaglobulinaemia; diabetes insipidus; cancer;

Homo sapiens.

XXXXX XXXXX

WO200129262-A2.

26-APR-2001.

S X

13-OCT-2000; 2000WO-US28436

15-OCT-1999; 99US-0160096.

(ORCH-) ORCHID BIOSCIENCES INC.

Picoult-Newburg L, Pohl M;

New genotyping oligonucleotide, useful for detecting the presence, absence or identity of single polynucleotide polymorphism in a nucleic acid sample

Claim 1; Page 67; 83pp; English.

CC includes kits for determining the presence or absence of a sup, using the CC oligonucleotides of the invention. The PCR primers are used to amplify a CSNP flanking sequence, the SNPs primer is used as a genotyping primer. CC The oligonucleotides are useful for genotyping a nucleic acid sample by performing a single-nucleotide primer extension reaction. The CC oligonucleotides are useful for determining the presence, absence or CC identity of a SNP and for genotyping nucleic acid samples, for e.g. to CC assess by association analysis the genotype of an individual or group of CC individuals, having a pathological phenotypic trait suspected of being CC caused by one or more SNPs. Phenotypic traits include diseases e.g. CC agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular CC disease of which a component is or may be genetic such as autoimmune CC disease of which a component is or may be genetic such as autoimmune CC disease of which a component is or may be genetic such as autoimmune CC inflammation, cancer, nervous system diseases and infection by pathogenic microorganism. The method is also useful in forensic investigations and component sequence represents a single nucleotide number of the present sequence represents a single nucleotide number of the present sequence represents a single nucleotide number of the present sequence represents a single nucleotide number of the present sequence represents a single nucleotide number of the present sequence represents a single nucleotide number of the present sequence represents a single nucleotide number of the present sequence represents a single nucleotide number of the present sequence represents a single nucleotide number of the present sequence represents a single nucleotide number of the present sequence represents a single nucleotide number of the present sequence of the p Sequences AAH37205 - AAH40944 represent PCR primers, single nucleotide primer extension (SNPE) primers, and the sequences of regions flanking sites of single nucleotide polymorphisms SNPs. The present invention primer extension (SNPB) The present sequence represents a single NPE) primer specific for a human SNP conta DNA

Sequence 27 BP; 5 A; 8 C; 4 G; 9 T; 1 other;

Query Match Best Local Similarity Matches 16; Conserv Conservative 70.5%; 84.2%; Score 14.8; DB 22; Pred. No. 2.5e+03; 0; Mismatches 3; Length 27; 0 Gaps

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tches
                                                                                                                                                                                                                                                 iery Match
AAQ69972 standard; cDNA; 31
                                                                                                                                                                                                                                                                                         Sequence 30 BP; 7 A; 10 C; 7 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                    PCR primers AAZ12359-Z12531 were used to amplify various open reading frames (ORPs) of Neisseria meningitidis and N. gonorrhoeae. These ORPs (AAZ11972-Z12358) encode antigenic proteins (AAX18499-Y38944). The antigenic proteins, their fragments, their nucleic acids and antibodies are used for diagnosis, prevention (as vaccines) or treatment of Neisseria infections, such as meningitis, septicaemia and gonorrhea. Both organisms are closely related. Fragments of the nucleic acids are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page 489; 524pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Proteins from Neisseria meningitidis and N. gono diagnosis, treatment and prevention of infection
                                                                                                                                                                                                                                                                                                                                 useful as hybridisation probes and antisense reagents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-327407/27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            01-SEP-1998;
06-NOV-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-MAY-1999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
Neisseria sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Neisseria meningitidis; Neisseria gonorrhoeae; antigen; vaccine; treatment; Neisseria infection; meningitis; septicaemia; gonorrh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CHIR-) CHIRON SPA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           09-OCT-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PCR primer used to amplify ORF83 of Neisseria species.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           08-OCT-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8-NOV-1997
                                                                                                                                                                                                     Local Similarity 88.1
les 16; Conservative
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                                                                                                                                                        1 CAGCAGCAGAGTCTTCAT 18
                                                                                                              CAGCAGCAGGGTTTTCAT 12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Masignani V,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
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                                                                                                                                                                                                                        70.5%;
88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   infection; meningitis; septicaemia; gonorrhea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pizza M,
                                                                                                                                                                                                0
  쁑
                                                                                                                                                                                                                   Score 14.8; DB 20
Pred. No. 2.5e+03;
                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Rappuoli R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gonorrhoeae useful for
                                                                                                                                                                                                                                             20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Scarlato
                                                                                                                                                                                                                                             Length
                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                             30;
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                                                                                                                                                                                                Gaps
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RESULT 13
ABL61345/c
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                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                       induce a T cell response, which may include T cell stimulation or T cell nonresponsiveness. Some have the ability to bind the dog dander specific IgB of dog dander allergic subjects. These peptides are useful in diagnosing sensitivity to dog dander. Other peptides significantly reduce the ability to bind dog dander allergic IgB and are thus useful as therapeutic agents. (See also AAQ65951-Q70006 and AAR59987-60018 - these include primers, and probes for isolation of CDNA coding Can fI and fII allergens and peptides derived from the
           Naja naja atra
                                        Chinese cobra;
                                                                       Naja naja atra
                                                                                                                                    ABL61345;
                                                                                                                                                                 ABL61345 standard; DNA; 24 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAQ69972 is a 5' primer corresponding to residues -26 to -20 of Can (AAR59987). It is used with AAQ69973 to amplify and sequence the 5' of the Can fI cDNA. Peptides of the invention have the ability to induce a T cell response, which may include T cell stimulation or
                                                                                                       13-SEP-2002
                                                                                                                                                                                                                                                                                                                                                                  Sequence 31 BP; 7 A; 13 C; 5 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Canis familiaris, protein allergen, dog dander, dog hair, alle T cell response, stimulation, diagnosis, sensitivity, therapeu agents, PCR, polymerase chain reaction; primer, amplification; probe, hybridisation, partial cDNA, degenerate, ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2; Page 59; 124pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DNA encoding dog dander allergenic peptide(s) Can f I and (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1994-249215/30.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bizinkauskas CB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-DEC-1992;
22-NOV-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  30-DEC-1993;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5'sense leader ex oligo primer to amplify 5' end Can fI cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25-MAR-2003
13-MAR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21-JUL-1994.
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                                                                                                                                                                                                                                                                                                                                                                                                   Updated on 25-MAR-2003 to correct PN field.)
                                                                                                                                                                                                                                              24 AGGAGCAGGGTCTTCATC 7
                                                                                                                                                                                                                                                                             Ŋ
                                                                                                                                                                                                                                                                                                                      1 70.5%;
Similarity 88.9%;
                                                                                                                                                                                                                                                                       AGCAGCAGAGTCTTCATC 19
                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (updated)
(first en
                                                                                                   (first entry)
                                        neurotoxin;
                                                                   short chain neurotoxin-associated PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    92US-0999712.
93US-0156549.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  93WO-US12468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Brauer AW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entry)
                                                                                                                                                                                                                                                                                                         0
                                                                                                                                                                                                                                                                                                                        Score 14.8; DB 15;
Pred. No. 2.5e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Konieczny A,
                                                                                                                                                                                                                                                                                                                      2.5e+03;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Morgenstern
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       dog hair; allergy;
ivity; therapeutic;
                                                                                                                                                                                                                                                                                                                                     Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -26 to -20 of CanfI
                                                                                                                                                                                                                                                                                                         Indels
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ESULT 14
BK49118/c
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Best Local :
 The invention relates to an isolated polypeptide of human transcription factor LCR-F19.02 the cDNA encoding it, and
                                              Example 4; Page 18; 38pp; Chinese.
                                                                            Homo transcription factor F19.02 and encoding treatment of erythropathy -
                                                                                                                      WPI, 2002-351761/38
                                                                                                                                                      Mao Y,
                                                                                                                                                                                                                                       25-JUN-2001; 2001WO-CN01053
                                                                                                                                                                                                                                                                                                                                              Human; 88; transcription factor; LCR-F19.02; erythropathy; PCR; primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                This invention describes a novel cobra short chain neurotoxin, the polynucleotide encoding the polypeptide and the method for producing polypeptide by means of recombination technology. The invention also discloses the method for curing several diseases, such as cancer, by using the cobra short chain neurotoxin, and a medicine composite containing the cobra short chain neurotoxin. This sequence represents PCR primer used in the amplification of the short chain neurotoxin described in the method of the invention.
                                                                                                                                                                              (SHAN-) SHANGHAI BIOWINDOW
                                                                                                                                                                                                          28-JUN-2000; 2000CN-0116822
                                                                                                                                                                                                                                                                     14-MAR-2002.
                                                                                                                                                                                                                                                                                              WO200220583-A1
                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                 Human transcription
                                                                                                                                                                                                                                                                                                                                                                                                                02-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                             ABK49118;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABK49118 standard; DNA; 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 24 BP; 7 A; 5 C; 6 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cai Q,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Short-chain nervous cobra toxin,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     03-AUG-2000; 2000CN-0119561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-AUG-2000; 2000CN-0119561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (SHAN-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CN1337404-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2002-384228/42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Yang S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SHANGHAI BIOENGINEERING RES CENT CHINESE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Page 11; 30pp; Chinese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                             (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gong
                                                                                                                                                                                                                                                                                                                                                                              factor LCR-F19.02 PCR primer
                                                                                                                                                                                                                                                                                                                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 69.5%;
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                                                                                                                                                                              GENB
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                                                                                     polynucleotide,
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(HOMO)
its fragment,
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Search completed: November Job time: 252 secs

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                                          Query Match
Best Local Similarity
                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local (
                                                                                               The present invention provides the protein and coding sequences of human plasmolemma regulation function-contained protein 70. The sequences can be used in the treatment of cancer and HIV infection. The present sequence is a PCR primer for the coding sequence of the invention.
                                                                             Sequence 34 BP; 5 A; 9 C; 9 G;
                                                                                                                                                            Example 5; Page 15(Disclosure); 27pp; Chinese.
                                                                                                                                                                                      Polypeptide-human protein 70 containing and polynucleotide for coding it -
                                                                                                                                                                                                                             WPI; 2001-566050/64.
                                                                                                                                                                                                                                                      Mao Y,
                                                                                                                                                                                                                                                                                                       29-OCT-1999;
                                                                                                                                                                                                                                                                                                                              29-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                     11-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                               CN1302889-A.
                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               analogue or derivative. Also included are vectors expressing the protein, a host cell comprising the vector, the isolation of modulators of the protein and an anti-transcription factor LCR-F19.02 antibody. The protein and nucleic acid are used in diagnosis and treatment of erythropathy.
                                                                                                                                                                                                                                                                                                                                                                                                                         Plasmolemma regulation function-contained protein 70; cancer; HIV; infection; gene therapy; human; PCR primer; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Plasmolemma regulation function-contained protein 70 cDNA PCR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           04-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   дан79384;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAH79384 standard;
                                                                                                                                                                                                                                                                               (BODA-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence is a PCR primer used transcription factor LCR-P19.02.
                                17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27
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17, Conserv
                                                                                                                                                                                                                                                                             BODAO
CAGCAGCAGAGTCTTCATCAT 21
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                             Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                             GENE TECHNOLOGY
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                                                                                                                                                                                                                                                                                                                             99CN-0119927.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA;
                                       69.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              69.5%;
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                             0,
                                                Score 14.6; DB 22;
                                         Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 14.6;
Pred. No. 3.
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                                                                           11 T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                           0 other;
                                      3.1e+03;
                                                                                                                                                                                                  plasmolemma regulation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BB
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                          Indels
                                                  Length
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st-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            16.2
15.4
14.8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Issued_Patents_NA:*
1: /cgm2_6/ptodata/2
2: /cgm2_6/ptodata/2
3: /cgm2_6/ptodata/2
4: /cgm2_6/ptodata/2
5: /cgm2_6/ptodata/2
6: /cgm2_6/ptodata/2
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Gapop 10.0 , Gapext 1.0
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Copyright (c) 1993 - 2003 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /cgn2_6/ptodata/2/ina/5A_COMB.seq:*
/cgn2_6/ptodata/2/ina/5B_COMB.seq:*
/cgn2_6/ptodata/2/ina/6A_COMB.seq:*
/cgn2_6/ptodata/2/ina/6B_COMB.seq:*
/cgn2_6/ptodata/2/ina/BCTUS_COMB.seq:*
/cgn2_6/ptodata/2/ina/backfiles1.seq:*
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                                                                        US-08-467-603-35
US-08-41-861A-35
US-08-41-1861A-35
US-09-410-959A-11
US-09-410-9563-16
US-09-432-35-10
US-09-432-35-10
US-09-651-40-23B-20
US-09-651-40-23B-20
US-09-651-661-61
US-09-42-978-3015
US-09-431-661A-54
US-09-374-671A-54
US-09-489-085A-6
US-09-996-243-312
US-09-657-452A-162
US-08-373-124A-27
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                 Sequence (
Patent No.
Sequence (
Sequence )
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                                                54, Appl
54, Appl
87, Appl
850, Appl
6, Appli
5463174
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35, Appl
35, Appl
35, Appl
11, Appl
163, Appl
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10, Appl
10, Appl
20, Appl
10, Appl
10, Appl
10, Appl
3015, Appl
15, Appl
54, Appl
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US-09-410-935B-6
                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                             APPLICANT:
APPLICANT:
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0 45	C 44	C 43	C 42			c 39		37	36		C 34			3 1	. J. C	2 2	c 28	
13	13	13	ju Lu	13	13	13	13	13	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.4	
61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	63.8	
31	31	31	31	31	31	23	23	19 4	47 4	38	8	_	33	-	_	_	-	
US-08-435-634-95	US-08-435-634-94	US-08-435-634-93	US-08-390-850-95	US-08-390-850-94	US-08-390-850-93	US-08-435-634-363	US-08-390-850-363	US-09-422-978-7130	US-09-422-978-626	US-09-614-022-26	US-09-432-335-26	US-09-130-663-26	US-08-343-443B-100	US-09-612-342-9	US-09-442-099A-9	2 US-09-205-860-28	US-08-435-628-27	
Sequence 95, Appl	Sequence 94, Appl	Sequence 93, Appl	Sequence 95, Appl	Sequence 94, Appl					626	Sequence 26, Appl		Sequence 26, Appl	Sequence 100, App	Sequence 9, Appli	Sequence 9, Appli	Sequence 28, Appl	Sequence 27, Appl	

ALIGNMENTS

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GENERAL INFORMATION:
APPLICANT: Barbour, Bric
APPLICANT: Exclaire Meyer, Terry
APPLICANT: Exclaire Meyer, Terry
APPLICANT: Eid Saad, Mohammed
TITLE OF INVENTION: No. 6504083el Maize Promoters
FILE REFERENCE: 5718-72
CURRENT APPLICATION NUMBER: US/09/410,935B
CURRENT FILING DATE: 1999-10-04
PRIOR APPLICATION NUMBER: US 60/107,201
PRIOR FILING DATE: 1998-11-05
PRIOR APPLICATION NUMBER: US 60/103,294
PRIOR FILING DATE: 1998-10-06
PRIOR FILING DATE: 1998-10-06
NUMBER OF SEQ ID NOS: 19
SOPTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 6
LENGTH: 32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; FEATURE:
; OTHER INFORMATION: Gene specific primer 1 for Gos-2
US-09-410-935B-6
                                                                                                                                                                                                                     Patent No. 5366876
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 6, Application US/09410935B
Patent No. 6504083
             APPLICANT: Cho, Joong M.
APPLICANT: Lee, Tae H.
APPLICANT: Chung, Hyun H.
APPLICANT: Lee, Yong B.
APPLICANT: Lee, Tae G.
APPLICANT: Park, Young W.
APPLICANT: Han, Kyu. B.
TITLE OF INVENTION: Method
TITLE OF INVENTION: Hormone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
ORGANISM: Artificial Sequence
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                   1 CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                          3 CAGCACCAGAGTCCTCAGCAT 23
                                                                                                                                                                                                                                              , Application US/07885689A
5366876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 77.1%;
85.7%;
         Method for Production of Bovine Growth Hormone Using a Synthetic Gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                               <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 16.2; DB 4; Length 32; Pred. No. 1e+02;
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                          ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCATION: 1..45
OTHER INFORMATION:
OTHER INFORMATION:
OTHER INFORMATION:
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MEDIUM TYPE: Ploppy disk
COMPUTER: IBM PC COmpatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                    TITLE OF INVENTION:
TITLE OF INVENTION:
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                                                                                                                                         RRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
 COMPUTER: IBM PC OPERATING SYSTEM:
                                                                                                             STREET:
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                                                                   COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: 37:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: FILING DATE: 19-MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAMB/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Svensson,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION:
                                                                                                                           DDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BCULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ENGTH:
                                                                                             ITY: Boston
                                                                                                                                                                                                                                                                                   35, Application US/08467603
5. 5843672
                                                                                                                                                                                                                                                                    INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nucleic acid
DEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                          CAGCAGAGTCTTCATCA 20
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Virginia
                                                                                                            60 State Street, suite 510
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   45 base pairs
                                                                      USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           USA
                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                        Bizindaukas,
                                                                                                                                                                                                           Brauer, Andrew W.
                                                                                                                                                                                                                                      Kanieczny, Andrzey
                                                                                                                                                                                                                                                      Morgenstern, Jay P.
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                                                                                                                           LAHIVE & COCKFIELD
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                             Ploppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19-MAY-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Leonard R.
                                                                                                                                                               Allergenic Proteins and
Peptides from Dog
Dander and Uses Therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                   73.3%; Score 15.4; DB 1; 94.1%; Pred. No. 2.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Stewart, Kolash & Birch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /label= oligonucleotide
/note= "U7 oligonucleotide portion of synthetic
BGH gene, Pigure 1."
                                                                                                                                                      104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US/07/885,689A
                                                                                                                                                                                                                          Christine B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 45;
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US-08-466-793-35/c
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BUBRAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    INFORMATION FOR SEQ ID NO:
                                                       APPLICATION NUMBER: 07/9
FILING DATE: 31-Dec-92
ATTORNEY/AGENT INFORMATION:
                                                                                                     CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0
FILING DATE: 22-NOV-1993
                                                                                                                                                                                CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/466,793
                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
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LENGTH: 31 base pairs
                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELECOMMUNICATION INFORMATION: TELEPHONE: (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
US/08/467,603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                        STREET: 60 St
CITY: Boston
                           NAME: Mandragouras, Amy B. REGISTRATION NUMBER: 36,20
                                                                                                                                                                                                                               COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                              MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                            COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                          ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: Mandragouras, Amy E.
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: IMI-026CP(IPC-048CP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             24 AGGAGCAGGGTCTTCATC 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16;
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                                                                                                                                                                                                                                                                                                                                                        60 State Street, suite 510
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Brauer, Andrew W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kanieczny, Andrzey
Bizindaukas, Christine B.
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                                                                                                                                                                                                                    ASCII-text
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     forgenstern,
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                                                                                                                                                                    06-JUN-1995
                                                                                                                                                                                                                                                              Ploppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Peptides
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                                                                                        07/999,712
                                                                                                                     US 08/156,549
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             IMI-026CP (IPC-048CP)
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Pred. No. 4.3e+02
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 31;
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TELEPAX: (617) ...
TELEPAX: (617) ...
TELEPAX: (617) ...
INFORMATION FOR SEQ ID NO: 3
SEQUENCE CHARACTERISTICS:
LENGTH: 31 base pairs
TYPE: nucleic acid
TYPE: nucleic acid
                                                                             nery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Duery Match
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                                                                                                                 STRANDEDNESS: Sing
TOPOLOGY: linear
MOLECULE TYPE: CDNA
                                                                                                                                                                                                                        TELEPHONE: (617) 227-7400
TELEPHONE: (617) 227-7400
TELEPAX: (617) 742-4214
                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/999,712
FILING DATE: 31-Dec-92
                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE:
                                                               Local
                                                                                                                                                                                                                                                                   NAME: Mandragouras, Amy E.
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: INI-026CP(IPC-048CP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/08/491,861A FILING DATE: 27-OCT-1995
                                                                                                                                                                                                                                                                                                                                                                                   CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LICANT: Brauer, Andrew W
LE OF INVENTION: Allerge
LE OF INVENTION: Dander
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O
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2 AGCAGCAGAGTCTTCATC 19
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                                                             Similarity
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5939283
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Similarity 88.9%;
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                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bizindaukas, Christine B.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                          IBM PC compatible
YSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LAHIVE & COCKPIELD, LLP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Floppy disk
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                                                          70.5%; Score 14.8;
88.9%; Pred. No. 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dander and Uses Therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Allergenic Proteins and Peptides from Dog
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Andrzey
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Pred. No. 4
                                             Mismatches
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                                                        .3e+02
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                                                                       2; Length 31;
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                                            Indels
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JS-09-110-959A-11

GENERAL INFORMATION:

APPLICANT: Schulein, Marti APPLICANT: Outtrup, Helle

Alkaline Xyloglucanase 206.200-US

US/09/110,959A

Sequence 11, Application US/09110959A Patent No. 6268197

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: SEQUENCE DESCRIPTION: SEQ ID NO: US-09-374-671A-35
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                      Query Match
Best Local Similarity
        Matches
                                                                                                                                                                                                                        TELEPAX: (617) 742-4
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/156,549:

FILING DATE: 1993-NOV-22

APPLICATION NUMBER: US 07/999,712

PILING DATE: 1992-DEC-31

ATTORNEY/AGENT INFORMATION:

NAME: DiGiorgio, Jeanne M.

REGISTRATION NUMBER: 41,710
                                                                                                                       MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: IMI-026C2CNCPA TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
COMPUTER: IBM FC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Brauer, Andrew W.
TITLE OF INVENTION: Allergenic Protein and Peptides from Dog
Dander and Uses Therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Morgenstern, Jay P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24 AGGAGCAGGGTCTTCATC 7
                                                                                                                                                          TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                          TOPOLOGY: linear
                                                                                                                                                                                                    LENGTH: 31 base pairs
                                                                                                                                                                                                                                                                                    TELBPHONE: (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/09/374,671A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZIP: 02109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEB: Amy E. Mandragouras
STREET: 28 State Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Application US/09374671A
    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bizindaukas, Christine B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Konieczny, Andrzej
                    70.5%;
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                    Score 14.8;
Pred. No. 4
                                                                                                     35:
                                           DB 4;
                                     Length 31;
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equence 163, Application U. itent No. 6426188
NERAL INFORMATION:
PPLICANT: Brett P. Monia
PPLICANT: Jacqueline
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: F.
SQ ID NO 11
LENGTH: 44
                                                                                                                                                                                                                                                                     ЛТ 9
19-657-452A-163
                                                                                                                                                                                                                                                                                                                                                                                                                    est Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                  ery Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION NUMBER: 60/063,694
PRIOR FILING DATE: 1997-10-28
NUMBER OF SEQ ID NOS: 14
OTHER INFORMATION: Antisense Oligonucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9-205-860-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             quence 3, Applic
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)9-205-860-3
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ORGANISM: Bacillus sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TURRENT FILING DATE: 1998
PRIOR APPLICATION NUMBER:
                            PRATURE:
                                           ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NERAL INFORMATION:
                                                                                                        JRRENT APPLICATION NUMBER: US/09/657,452A
JRRENT FILING DATE: 2000-09-07
JMBER OF SEQ ID NOS: 178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   THER INFORMATION: PCR Primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IMBER OF SEQ ID NOS: 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                URRENT APPLICATION NUMBER: US/09/205,860
URRENT PILING DATE: 1998-12-04
                                                                             ENGTH:
                                                                                                                                                         TLE OF INVENTION: ANTISENSE MODULATION OF PHOSPHORYLASE KINASB ALPHA 1 EXPRESSION LE REFERENCE: RTS-0125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TLE OF INVENTION: ANTISENSE MODULATION OF 6-ALPHA-13 EXPRESSION LB REFERENCE: RTS-0031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PLICANT: Lex M. Cowsert
                                                                             ID NO 163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PILING DATE: 1997-1
APPLICATION NUMBER:
PILING DATE: 1997-0
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1997-10-24
"TMRER: 60/054,039
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84.2%;
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Pred. No. 7.
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Pred. No. 5.6e+02
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                                                                                               SOPTWARE: FastSEQ for Windows Version SEQ ID NO 10
                                                                                                                                                                                                                                                                                                    Sequence 10, App-
Sequence 10, App-
No. 6020163
                                                                                                                                                                                                                                                                      Patent No. 6020-
Patent No. 6020-
Patent INFORMATION:
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Best Local
                                                                                                                                  EARLIER APPLICATION NUMBER: 60/054,867
EARLIER FILING DATE: 1997-08-06
NUMBER OF SEQ ID NOS: 30
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                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/130,663A CURRENT FILING DATE: 1998-08-05
                                                                                                                                                                                                                                 APPLICANT: Conklin, Darrell C.
TITLE OF INVENTION: LIPOCALIN HOMOLOG
FILE REFERENCE: 97-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FILE REPERENCE: WEUT13885
CURRENT APPLICATION NUMBER: US/09/360,545
CURRENT FILING DATE: 1999-07-26
EARLIER APPLICATION NUMBER: 60/052,249
EARLIER FILING DATE: 1997-11-07
EARLIER APPLICATION NUMBER: PCT/US98/14528
EARLIER FILING DATE: 1998-07-10
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LOCATION: (1). 7(24)
OTHER INFORMATION: Oligonucleotide that corresponds to the conserved
OTHER INFORMATION: amino acid sequence set forth in SEQ ID NO:46
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: Description of Artificial Sequence: OTHER INFORMATION: oligonucleotide corresponding to amino acid OTHER INFORMATION: sequence set forth in SEQ ID NO:46
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APPLICANT: Bohlmann, Jorg
APPLICANT: Steele, Christopher L
APPLICANT: Phillips, Michael A
APPLICANT: Phillips, Michael A
APPLICANT: Phillips, Michael A
OTHER INFORMATION: Oligonucleotide primer: ZC13270
                                TYPE: DNA
ORGANISM: Artificial Sequence
                                                                             ENGTH: 30
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Local Similarity 84.2%;
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Pred. No. 7.
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Pred. No. 7.6e+02;
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lequence 20, Ap.
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SEQ ID NO 10
LENGTH: 30
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CURRENT FILING DATE: 1999-11-02
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ARLIER FILING DATE: 1997-08-06
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
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                                                     CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/254,023B
FILING DATE: 20-Apr-1999
CLASSIFICATION: <Unknown>
                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: 1BM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0,
                                             PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                          CORRESPONDENCE ADDRESS:
ADDRESSEB: Burns, Doane, Swecker & Mathis, LLP
                                                                                                                                                                                                                                                                                                                    THOMPSON, Andrew Hugin
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                                                                                                                                                                                                                               STATB: Virginia
               APPLICATION NUMBER: WO PCT/GB97/02403
FILING DATE: 05-SEP-1997
                                                                                                                                                                                                  ZIP: 22313-1404
                                                                                                                                                                                                               COUNTRY: United States
                                                                                                                                                                                                                                             CITY: Alexandria
PPLICATION NUMBER: GB 9618544.2
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LIPOCALIN HOMOLOG
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Pred. No. 8
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US-09-422-978-3015/c
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US-09-614-022-10
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                                                                                               GENERAL INFORMATION:
APPLICANT: Cohen, Daniel
                                                                                                                                 Sequence 3015, Application US/09422978 Patent No. 6537751
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Best Local .
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                                         APPLICANT: Blumenfeld, Marta
APPLICANT: Chumakov, Ilya
TITLE OF INVENTION: Biallelic markers for use
CURRENT APPLICATION NUMBER: US/09/422,978
CURRENT FILING DATE: 1999-10-20
                              FILE REFERENCE: GENSET.020CP1
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CURRENT FILING DATE: 2000-07-11
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                                                                                                                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
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SEQUENCE CHARACTERISTICS:
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MOLECULE TYPE: DNA (genomic)

SEQUENCE DESCRIPTION: SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION: TELEPHONE: (703) 836-6620
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                                                                                                                                                                                                                                   27 CAGGAACAGGGT
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ARLIER APPLICATION NUMBER: US 09/298,850

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st-processing: Minimum Match 0%
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Listing first 45 summaries
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Copyright (c) 1993 - 2003 Compugen Ltd.
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6/ptodata/2/pubpna/US10A_FUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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US-09-946-374-163	US-10-196+107A-35	US-09-374-671-35	US-10-080-794-2	US-10-080-794-1	US-09-967-726A-2	US-09-967-726A-1	US-09-944-326-2	US-09-944-326-1	US-10-007-010-43	US-10-278-255-6	US-10-080-794-15	US-09-967-726A-15	US-10-080-794-4	US-09-967-726A-4	US-09-944-326-4	ID
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-10-013-915A-163	-10-015-389A-163	-10-007	-10-015	-10-	-10	-10-015	-10-015	Ë	÷	-10-015	-10-015	-10-015	-10-013	-10-013	-10-013	-10-013	-10-012-754A-163	-10-012	-10-012-137A-	-10	-10-	-10	1-10-	-10	-10		-10	-10
013	015			-012			<u>015</u>	-013	-012		015	015		013	<u>:013</u>	<u>013</u>	012	012	012	-012	-017-867A-163	-012-064A-	-017	-017-253A-163	-015-392A-	-10-006-172A-163	-10-006-130A-163	-10-015-387A-
-915	-389	-236A-	-385A-	-753A	-715A-163	-480A	-388A-	-906A	-237A-	-671A-	-653	-610A-	-912A-	-911A-	-910A-	-909A-	-754	-752	-137	-101B	-867	-064	-306	-253	-392	-172	÷130	-387
A-16	A-10	A-16	A-16	A-163	A-1	A-163	A-163		A-163	A-16	653A-163	A-163	A-163	A-163	A-16	A-163	A-1	752A-163	'A-163	B-163	À-1	Ã-1	306A-163	Ā-1	A-16	A-1	A-1	A-163
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App	Agg	A C	App	Agg	Apr.	App	Agg A	A C	Agg.	A	Apr	Agr	aga	Agr	λ	aga	ADK	Agg	App	À N	Agr	Apr	Agg	Apr	Apr	App	Αpr	App
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; TYPE: DNA; ORANISM: HUWAN; ORATURE: ; PEATURE: ; OTHER INFORMATION: antisense TRPM-2 ODN US-09-944-326-4 US-09-944-326-4 NUMBER OF SEQ ID NOS: 14 SOFTWARE: PatentIn Ver. SEQ ID NO 4 LENGTH; 21 GENERAL FILE REFERENCE: UBC.P-020-2 CURRENT APPLICATION NUMBER: US/09/944,326 CURRENT FILING DATE: 2001-08-30 PRIOR APPLICATION NUMBER: 60/121,726 PRIOR APPLICATION NUMBER: PRIOR PILING DATE: 2001-01 APPLICANT: PRIOR FILING DATE: 1999-02-26 CITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY APPLICANT: Gleave, Martin LENGTH: INFORMATION: Rennie, Paul S. Miyake, Hideaki Nelson, Colleen Application US/09944326 2001-08-10 09/913,325

문 Matches Query Match Best Local Similarity 21; CAGCAGCAGAGTCTTCATCAT 21 CAGCAGCAGAGTCTTCATCAT 21 Conservative 100.0%; Score 21; DB 10; Length 21; 100.0%; Pred. No. 1.6; 0; Mismatches 0;

0

RESULT 2 US-09-967-726A-4 Sequence 4, Application US/09967726A

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JTT 4

39-967-726A-15

equence 15, Application US/09967726A

ablication No. US20030158130A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Miyake, Hideaki
APPLICANT: Nelson, Colleen
APPLICANT: Nelson, Colleen
APPLICANT: Monia, Brett P.
TITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY USING AN OLIGONUCLEOTIDE
TITLE OF INVENTION: HAVING 2'-O-(2-METHOXY)ETHYL MODIFICATIONS
FILE REFERENCE: UBC.D-020-3
CURRENT APPLICATION NUMBER: US/10/080,794
CURRENT FILING DATE: 2002-02-22
CURRENT FILING DATE: 1999-02-26
PRIOR APPLICATION NUMBER: 09/913,325
PRIOR APPLICATION NUMBER: 09/913,325
PRIOR APPLICATION NUMBER: 09/913,325
PRIOR PILING DATE: 2001-08-10
DESCRIPTION FILING DATE: 2001-08-10
DESCRIPTION DATE: 2001-08-10
DESCRIPTION DATE: 2001-08-10
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ORGANISM: human
09-967-726A-4
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PRIOR FILING DATE: 2001-08-30
NUMBER OF SEQ ID NOS: 19
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SOFTWARE: PATENTIN VERSION 3.1
EQ ID NO 4
LENGTH: 21
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APPLICANT: Miyake, Hideaki
APPLICANT: Nelson, Colleen
APPLICANT: Zellweger, Tobias
APPLICANT: Zellweger, Tobias
TITILE OF INVENTION: Chemo- and Radiation-Sensitization of Cancer by Antisense TRPM-2
TITLE OF INVENTION: Oligonucleotides
TITLE OF INVENTION: Oligonucleotides
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                                                                                                                                                                                                                                                                                                                                    FEATURE:
OTHER INFORMATION: antisense TRPM-2 ODN
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100.0%; Pred. No. 1.6;
tive 0; Mismatches
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US-10-278-255-6

Sequence 6, App Publication No.

Application US/10278255 No. US20030097690A1

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                                                                                                                                             ; TYPE: DNA
; ORGANISM: HUMAN
US-10-080-794-15
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SEQ ID NO 15
LENGTH: 21
                                                                       Matches
                                                                                    Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
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Publication No. US20030166591A1
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LENGTH: 21
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APPLICANT: Gleave, Martin
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                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 09/913,325
PRIOR FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: 09/944,326
PRIOR FILING DATE: 2001-08-30
NUMBER OF SEQ ID NOS: 19
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CURRENT FILING DATE: 2002-02-22
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APPLICANT: Nelson, Colléen
APPLICANT: Zellweger, Tobias
TITLE OF INVENTION: Chemo- and Radiation-Sensitization of Cancer by Antisense TRPM-2
TITLE OF INVENTION: Oligonucleotides
FILE REFERENCE: UBC.P-022
                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 60/121,726
PRIOR FILING DATE: 1999-02-26
                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: UBC.P-020-3
                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY USING AN OLIGONUCLEOTIDE TITLE OF INVENTION: HAVING 2'-O-(2-METHOXY) ETHYL MODIFICATIONS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
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                                                                   19; Conservative
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                    1 CAGCAGCAGAGTCTTCATCAT 21
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CAGCAGCAGAGTATTTATCAT 21
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Monia, Brett P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Miyake, Hideaki
Nelson, Colleen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Rennie, Paul S
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                                                                                        84.8%;
                                                                     0; Mismatches
                                                                                      Score 17.8;
Pred. No. 5
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Pred. No. 53;
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                                                                                                       DB 12;
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                                                                     Indels
                                                                                                       Length 21;
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SULT 8
-09-944-326-1
Sequence 1, Application US,
Patent No. US20020128220A1
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)-10-278-255-6
                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -10-007-010-43
Sequence 43, Application US/10007010
Publication No. US20030125275A1
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: Antisense Oligonucleotide -10-007-010-43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 43
                                                                                                 APPLICANT: Gleave, Martin
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION NUMBER: US/10/007,010 CURRENT FILING DATE: 2001-12-04
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Alexander H. Borchers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: US/09/410,935
PRIOR FILING DATE: 1999-10-04
PRIOR APPLICATION NUMBER: US 60/107,201
PRIOR FILING DATE: 1998-11-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CURRENT FILING DATE: 2002-10-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE OF INVENTION: No. US20030097690Alel Maize Promoters
FILE REFERENCE: 5718-72
                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM: Artificial Sequence
FRATURB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PPLICANT: Kenneth W. Dobie
ITLE OF INVENTION: ANTISENSE MODULATION OF HCK EXPRESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LE REFERENCE: RTS-0345
                                                                                                                                                                                                                                                                                                                           Local Similarity
                                                                                                                      INFORMATION:
                                                                                                                                                                                                                                                                                                             16,
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                                                                                                                                                    Application US/09944326
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                                                 Rennie, Paul S.
Miyake, Hideaki
Nelson, Colleen
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NUMBER: US/09/944,326
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                                 TRPM-2 ANTISENSE THERAPY
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85.7%;
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Pred. No. 1.
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Pred. No. 3.
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                                                                                                                                                                                                                                                                                                                                      Length 20;
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RESULT 10
US-09-967-726A-1
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                                                              GENERAL INFORMATION:
                                                                             Sequence 1, Application US/09967726A Publication No. US20030158130A1
                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                          Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 2
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                                 APPLICANT: Gleave, Martin
APPLICANT: Rennie, Paul (
                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION NUMBER: 60/121,726
PRIOR FILING DATE: 1999-02-26
PRIOR APPLICATION NUMBER: 09/913,325
PRIOR FILING DATE: 2001-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILE REFERENCE: UBC.P-020-2
CURRENT APPLICATION NUMBER: US/09/944,326
CURRENT FILING DATE: 2001-08-30
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TYPE: DNA
ORGANISM: Murine
FEATURE:
                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: mismatch control
                                                                                                                                                                                                                                                                                                                                        ORGANISM: Murine FEATURE:
                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
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                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Match 70.5%;
Local Similarity 88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 1999
                                                                                                                                                                                                        1 CAGCAGCAGAGTCTTCAT 18
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Miyake, Hideaki
Nelson, Colleen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rennie, Paul S.
Miyake, Hideaki
Nelson, Colleen
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                                                                                                                                                                                                                                                      70.5%;
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Pred. No. 1
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Pred. No. 1.
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                                                                                                                                                                                                                                                                    DB 10;
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APPLICANT:

Zellweger, Tobias

TITLE OF INVENTION: Chemo- and Radiation-Sensitization of Cancer by Antisense TRPM-2

ON: Oligonucleotides UBC.P-022

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APPLICANT: Rennie, Paul S.

APPLICANT: Miyake, Hideaki
APPLICANT: Miyake, Hideaki
APPLICANT: Miyake, Hideaki
APPLICANT: Monia, Brett P.

TITLE OF INVENTION: TREM-2 ANTISENSE THERAPY USING AN OLIGONUCLEOTIDE
TITLE OF INVENTION: HAVING 2'-O-(2-METHOXY)ETHYL MODIFICATIONS
FILE REPERENCE: UBC.P-020-3
CURRENT PILLING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/121,726
PRIOR PILLING DATE: 1999-02-26
PRIOR FILLING DATE: 1999-02-26
PRIOR APPLICATION NUMBER: 60/913,325
PRIOR APPLICATION NUMBER: 09/913,325
PRIOR PILLING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: 09/914,326
PRIOR FILLING DATE: 2001-08-30
PRIOR FILLING DATE: 2001-08-30
PRIOR FILLING DATE: 2001-08-30
PRIOR FILLING DATE: 2001-08-30
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TITLE OF INVENTION: Chemo- and Radiation-Sensitization of Cancer by Antisense TRPM-2
TITLE OF INVENTION: Oligonucleotides
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TYPB: DNA
ORGANISM: human
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CURRENT FILING DATE: 2001-09-28
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                                                                                                                                                                                                                                                                                                                                                      NPPLICANT: Gleave, Martin
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ORGANISM: human
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                                                                                                                                                                                                                                                                                                                                                                              INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    16; Conservative
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Miyake, Hideaki
Nelson, Colleen
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US-09-374-671-35/c
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-080-794-2
                                                                                                                                                                                                                                                            RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                           Matches
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SOPTWARE: PatentIn Ver.
SEQ ID NO 2
                                                                                                                                                                                                  Sequence 35, Application US/09374671 Patent No. US20020012963A1
                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 2, Application US/10080794
Publication No. US20030166591A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                            Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Miyake, Hideaki
APPLICANT: Melson, Colleen
APPLICANT: Monia, Brett, P.
APPLICANT: Monia, Brett, P.
TITLE OF INVENTION: TRPM-2 ANTISENSE THERAPY USING AN OLIGONUCLEOTIDE
TITLE OF INVENTION: HAVING 2'-O-(2-METHOXY)ETHYL MODIFICATIONS
FILE REFERENCE: UBC.P-020-3
CURRENT APPLICATION NUMBER: US/10/080,794
CURRENT PILING DATE: 2002-02-22
PRIOR APPLICATION NUMBER: 60/121,726
PRIOR APPLICATION NUMBER: 60/121,726
PRIOR FILING DATE: 1999-02-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: Patentin Ver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: 09/944,326 PRIOR FILING DATE: 2001-08-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Gleave, Martin
APPLICANT: Rennie, Paul
                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 09/913,325
PRIOR FILING DATE: 2001-08-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
ORGANISM: Murine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Murine
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                                                                       APPLICANT: Brauer, i
TITLE OF INVENTION:
TITLE OF INVENTION:
                                 CORRESPONDENCE ADDRESS:
                                                      NUMBER OF SEQUENCES:
                                                                                                                                APPLICANT:
                                                                                                                                               APPLICANT:
                                                                                                                                                             APPLICANT: Morgenstern,
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nes 16; Conserv
                     ADDRESSEE:
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16; Conserv
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28 State Street
                                                                                                        Brauer, Andrew W.
                                                                                                                          Kanieczny, Andrzey
Bizindaukas, Christine B.
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               LAHIVE & COCKFIELD, LLP
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                                                  Allergenic Proteins and Peptides from Dog
Dander and Uses Therefor
104
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                                                                                                                                                                 Jay P.
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Pred. No. 1.
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Pred. No. 1.
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Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TELEPAX: (617) 742-4214
NFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION: TELEPHONE: (617) 227-7400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION:
PRIOR APPLICATION DATA:
PRIOR APPLICATION NUMBER: 08/491,861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Ploppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity 88.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Mandragouras, Amy E.
REGISTRATION NUMBER: 36,207
REFERENCE DOCKET NUMBER: IMI-026CP(IPC-048CP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TORNEY/AGENT INFORMATION:
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII-text
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: PILING DATE:
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                                                                                                                              OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: ASCII Text CURRENT APPLICATION DATA:
                                                                                                                                                                                               ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                            PRIOR
                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
ADDRESSEE: Lahive & Cockfield, LLP
                                                                                                                                                                                                                                                                                                                                                                            Brauer, Andrew W.
TITLE OF INVENTION: Allergenic Protein and Peptides from Dog
Dander and Uses Therefor
                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Morgenstern, Jay P. Konieczny, Andrzej
                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 AGCAGCAGAGTCTTCATC 19
APPLICATION NUMBER: US 09/374,671
FILING DATE: 1999-AUG-16
APPLICATION NUMBER: US 08/491,861
FILING DATE: 1995-OCT-27
                                                                          APPLICATION NUMBER: US/10/196,107A PILING DATE: 16-Jul-2002 APPLICATION DATA:
                                                                                                                                                                                    COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                      CITY: Boston
STATE: Massachusetts
                                                                                                                                                                                                                                                                                                              STREET: 28 State Street
                                                                                                                                                                                                                                                             COUNTRY: USA
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Pred. No. 1
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Best Local Similarity
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SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                      SEQUENCE DESCRIPTION: SEQ ID NO: 35:
                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                          MOLECULE TYPE: CDNA
                                                                   24 AGGAGCAGGGTCTTCATC 7
                                                                                                                                      16;
                                                                                                  2 AGCAGCAGAGTCTTCATC 19
                                                                                                                                                                                                                                                                     LENGTH: 31 base pairs
TYPB: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Digiorgio, Jeanne M.
REGISTRATION NUMBER: 41,710
REFERENCE/DOCKET NUMBER: IMI-026C2CNCPADV
                                                                                                                                                                                                                                                                                                                                                                                TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US 07/999,712 FILING DATE: 1992-DEC-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US 08/156,549 FILING DATE: 1993-NOV-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: PCT/US93/12468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 1993-DEC-30
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seq length: 2000000000
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Gapop 10.0 , Gapext 1.0
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21
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248.488 Million cell updates/sec
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gb est2: *
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                AW276802
0 BF920141
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BF958934 PM1-NN120
AW901233 CM4-NN101
                                                                                          Description
                                                                                                                                                      JOURNAL COMMENT
                                                                                                                                                                                                                                                                                                            VERSION
KEYWORDS
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AW276802/c
LOCUS
                                                                                                                                                                                                                                 REFERENCE
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TITLE
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                                                                                                                                                                                                                                                                                ORGANISM
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Andrew Berchuck M.D., John Gillespie M.D.,
Michael R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: David B. Krizman, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
CDNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
                                                                                                                                                                                        Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.

1 (Dases 1 to 85)

NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                           Tumor Gene Index
                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                             Homo sapiens (human)
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BQ339862
D45267
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BI032792 MR4 - NN018
BF958930 PM1 - NN120
BI036860 MR4 - NT014
AL745406 WC3 7041. x
BI036862 MR4 - NT014
AL745406 WC3 7041. NN120
BF957665 PM1 - NN120
BF957665 PM1 - NN120
BF957665 PM1 - NN021
BF957859 MR4 - NT014
BF93819 MR4 - NT014
BF93819 MR4 - NT014
BF938670 RC2 - NT011
BF92363 MR4 - NT014
BF9363107 PM1 - NN120
BF85715 PM1 - NN120
BF85715 PM1 - NN121
BF947155 MR3 - NN021
BF947157 MR3 - NN021
BF9561150 PM1 - NN120
BF9561150 PM1 - NN120
BF9561150 PM1 - NN120
BF9561150 PM1 - NN120
BF9561150 PM1 - NN121
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                                                                                                                (http://www.ludwig.org.br/scripts/gethtml2.pl?ti=MR1&t2=MR1-NT0179-071100-003-f02&t3=2000-11-07&t4=1)
                                                                                                                                                   Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer
Project, This entry can be seen in the following URL
                                                                                                                                                                                                                                                                                            Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Re
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Dias Neto, B., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, P.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare
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Seq primer: -40UP from Gibco.
Location/Qualifiers
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                                                                                                                                                                                                                                                                       Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                    +55-11-2707001
                                                           quality sequence start: 11 quality sequence stop: 100.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Soares, F., Brentani, R.R.,
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                                      Location/Qualifiers
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21 c
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/organism⇔"Homo sapiens"
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/note="Organ: ovary; Vector: pAMP10; cDNA made b
priming. Non-directionally cloned into the UDG
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Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
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1 (Dases 1 to 102)

Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., deoliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
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                                                                                                                                                                                                                                                                                                                                                                                                          Email: asimpson@ludwig.org.br
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Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                                                                                                                        This sequence was derived
                                                                                                                                                                                                                                                                                                                                                                                                                                    Fax: +55-11-2707001
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tel: +55-11-2704922
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                                                                       Site
      profiles
                                                                                                                                 /mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
                          derived from No. 196,716 -
                                                                                                               clone
                                                                                       note="Organ:
                                                                                                                                                                                            organism="Homo sapiens"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=&t2=CM4-NN1011-100
300-110-g04&t3=2000-03-10&t4=1)
Seq primer: puc 18 forward
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Shotgun sequencing of the human transcriptome with ORF expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 (bases 1 to 119)
Dias Neto, B., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,
Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,
Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H.,
Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare,
M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 119 bp mRNA linear CM4-NN1011-100300-110-g04 NN1011 Homo sapiens cDNA, AW901233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
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BST.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    +55-11-2704922
  100.0%; Score 21; DB 10; Length 119; llarity 100.0%; Pred. No. 34; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                   quality sequence start: 11 quality sequence stop: 118. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             +55-11-2707001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                                                                                                       /note=Torgan: nervous normal; Vector: puc18; Site 1: SmaI; Site 2: SmaI, A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the puc 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
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25 c 38 g 18 t
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                                                                                                                                                                                                                                                                                                                       xref="taxon:9606"
_stage="Adult"
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Pred. No. 3
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                                                                  102
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                                                                                                         1 CAGCAGCAGAGTCTTCATCAT 21

    (bases 1 to 124)
    Kim, N.S., Hahn, Y., Oh, J.H., Lee, J.Y., Ahn, H.Y., Chu, M.Y., Kim, M.R., Oh, K.J., Cheong, J.B., Sohn, H.Y., Kim, J.M., Park, H.S., Kim, S. and

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              High quality sequence stop:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Korea Research Institute of Bioscience & Biotechnology 52 Eoeun-dong Yuseong-gu, Daejeon 305-333, South Korea Tel: +82-42-860-4470
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Unpublished
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kim, Y.S.
21C Frontier Korean EST Project 2001
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K-EST0090952 S20T665307 Homo sapiens cDNA clone S20T665307-15-H01
                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: yongsung@mail.kribb.re.kr
Plate: 15 row: H column: 01
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Genome Research Center
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: Kim YS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                               CAGCAGCAGAGTCTTCATCAT
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                                                                                                                                                                                                                                                                                27
                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                          /clone lib=$207665307"
/clone=Torgan: Stomach; Vector: pCNS; Site 1: EcoRI;
/note=Torgan: Stomach; Vector: pCNS; Site 1: EcoRI;
Site 2: NoII; The poly (A)+ RNA was dephosphorylated with bacterial alkaline phosphatase (BAP) and then decapped with tabacco acid pyrophosphatase (TAP). The decapped intact mRNA was ligated with DNA RNA linker including EcoR I site by treatment of T4 RNA ligase and the first strand CDNA was synthesized from oligo dT-selected mRNA by priming with dT-tailed vector. The dT-tailed vector was adjusted to have about 60nt. The cDNA vector was circularized with B. coli DNA ligase after digestion of EcoRI which site is also included in vector. An RNA strand converted to a DNA strand by Odayama-Berg method. The obtained cDNA vectors were used for transformation of competent cells E. coli TOPIOF by electroporation method. The cDNA libraries constructed by this method are full-length enriched cDNA library."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       clone="S20T665307-15-H01"
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                                                                                                                                                                              100.0%; Score 21; DB 100.0%; Pred. No. 35;
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                                                                                                                                                          Mismatches
                                                                                                                                                                                                 DB 12;
                                                                                                                                                                                                 Length. 124;
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BQ339862/c LOCUS

DEFINITION

BQ339862 138 bp mRNA linear PM1-NN1200-011200-010-f07 NN1200 Homo sapiens cDNA,

EST 20-MAY-2002

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                   Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Butele Mammalla; Butherla; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 142)
                                                                                        Homo sapiens
                                                                                                                                                                                        HUMHG1194 Human cerebral
                                                                                                       Homo sapiens (human)
                                                                                                                                                   D45267.1
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High quality sequence stop: 35.
Location/Qualifiers
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Dias Neto, B., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, P.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, P., Brentani, R.R., Reis, L.F., de Souza, S.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
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Seg primer: puc 18 forward
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=PM1&t2=PM1-NN1200-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BQ339862
BQ339862.1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /note-*Organ: nervous normal; Vector: puc18; Site 1: SmaI; Site 2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under
                                                                                                                                                   GI:1136645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  organism="Homo sapiens"
mol_type="mRNA"
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/_stage="Adult"
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Primates;
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cortex Homo sapiens
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Zhao, N., Misumi, Y. and Sakaki, Y.
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 138;
                                                                                                                                                                                     linear
18 cDNA,
                                                                                                                                                                                     mRNA sequence.
                                                          Euteleostomi;
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ORGANISM
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ب
                                                                                                                                                       This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtml2.pl?tl=PM1&t2=PM1-NN1200-004-h12&t3=2000-11-05&t4=1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21;
                                                                                                   High quality sequence start: 14 High quality sequence stop: 34.
                                                                                                                                                                                                                                                                                                                        Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 (bases 1 to 147)
1 (bases 1 to 147)
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Costa, F.P.,
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Costa, F.P.,
Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,
                                                                                                                                             Seq primer: puc 18 forward
                                                                                                                                                                                                                                        Email: asimpson@ludwig.org.br
                                                                                                                                                                                                                                                                                      Tel: +55-11-2704922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Shotgun sequencing of the human transcriptome with ORF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G. H., Carvalho, A.F., Matsukuma, A., Bala, G.S., Simpson, D.H., Brunstein, A., deollveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae
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PM1-RN1200-051100-004-h12 NN1200 Homo
BQ339466 BQ339466.1 GI:20999152
EST.
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                                                                                                                                                                                                                                                                 2ax: +55-11-2707001
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Tel: 03-5449-5625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: Nobuaki Takahashi
Institute of Medical Science
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sequence tags
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /clone_lib="Human cerebral cortex"
/note="Adult male cerebral cortex tissue."
31 c 55 g 30 t
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mol_type="mRNA"
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              COUNT
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                                                                                                                                                                                                                                                                                                                               This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtm12.pl?tl=PM1&t2=PM1-EN0065-231000-002-b01&t3=2000-10-23&t4=1)
Seq primer: puc 18 forward
High quality sequence stop: 110.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 (bases 1 to 148)
Dias Neto, B., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,
Nagsi, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.P.,
Goldman, G.H., Carvalho, A.P., Matsukuma, A., Baia, G.S., Simpson, D.H.,
Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare,
M.J., Soares, P., Brentani, R.R., Reis, L.F., de Souza, S.J. and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tel: +55-11-2704922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Shotgun sequencing of the human transcriptome with ORF sequence tags
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Email: asimpson@ludwig.org.br
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            24
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                                                                  /clone lib="EN0055"
/clone lib="EN0055"
/note="Organ: lung_normal; Vector: puc18; Site_1: SmaI;
Site_2: SmaI; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
    tissue mRNA and cDNA amplification were performed under low stringency conditions."

56 c 41 g 27 t
                                                                                                                                                                                                                       /mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
                                                                                                                                                                                                                                                                                         organism="Homo sapiens"
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/note="Organ: nervous normal; Vector: puc18; Site_1: Smal;
/note="Organ: nervous normal; Vector: puc18; Site_1: Smal;
Site_2: Smal; A mini-Tibrary was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
NO. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
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46 c 28 g 38 t
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Pred. No.
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EN0065 Homo sapiens cDNA,
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BE766895 169 bp mRNA linear RC2-NT0110-050600-013-f03 NT0110 Homo sapiens cDNA, BE766895 GI:10196819 EST.

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RESULT 11
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                                                                            71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              34 CAGCAGCAGAGTCTTCATCAT 54
                                                                                                          1 CAGCAGCAGAGTCTTCATCAT 21
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CBS-389 Subtractive cDNA library ocular ciliary body Homo sapiens cDNA clone CBS-389 5' end similar to TRPM-2 (clusterin) (accession
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: miguel
Seq primer: T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Department of Ophthalmology and Visual Science Yale University Medical School
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 149)

Bscribano, J.; Ortego, J. and Coca-Prados, M.

Isolation and characterization of cell-specific cDNA clones from a subtractive library of the ocular ciliary body of a single normal human donor: Transcription and synthesis of plasma proteins J. Biochem. 118 (5), 921-931 (1995)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 CAGCAGCAGAGTCTTCATCAT 21
                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tel: 2037852742
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     330 Cedar Street, New Haven,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Coca-Prados, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens (human)
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llarity 100.0%;
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                                                                                                                                                                                                                              /clone lib=Subtractive cDNA library ocular ciliary body"
/note=Tyector: pBluescript II SK; Site 1: EcoRI; Site 2:
XhoI; A subtractive cDNA library was developed by
hybridizing antisense, single-stranded phagemid DNA (ssDNA)
(as pBluescript SK-) from the ocular ciliary body cDNA
library (target) of a 34-year-old female donor in
lambda-Uni-ZAP XR with blotinylated sense RNA of an ocular
cell line cDNA library (driver) in the same vector."

3 1 c 56 g 29 t
                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CBS-389"
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                                                                                                                                                                                  Score 21;
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                                                                                                                                              Mismatches
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                                                                                                                                                                                 DB 14;
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1 (bases 1 to 169)

Dias Neto, B., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R.,

Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F.,

Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H.,

Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
                                                                                                                                                                                                                                                                                                                                                                                          1 CAGCAGCAGAGTCTTCATCAT 21
Eukaryota; Metazoa; Chordata; Crai
Mammalia; Eutheria; Primates; Catt
1 (bases 1 to 177)
Poustka,A., Klein,M., Mewes,H.W.,
EST (Poustka, et al.)
                                                                                                                                                                                                                  DKFZp586H092_r1 586 (synonym: DKFZp586H092, mRNA sequence.
                                                                                                                                                                                                                                                            AL048592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human
Project. This entry can be seen in the following URL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (http://www.ludwig.org.br/scripts/gethtml2.pl?ti=&t2=RC2-NT0110-050600-013-f03&t3=2000-06-05&t4=1)
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                                                                                                              Homo sapiens
                                                                                                                                                                            AL048592.1 GI:4729143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Seq primer: puc 18 forward
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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Ludwig Institute for Cancer Research
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                                                                                                                                  lomo sapiens (human)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
llarity 100.0%;
Conservative (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /clone lib="NTO110"
/clone lib="NTO110"
/note="Organ: nervous tumor; Vector: puc18; Site_1: SmaI;
/note="Organ: A mini-Tibrary was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
tissue mRNA and cDNA amplification were performed under
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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36 c 59 g 37 t
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Pred. No. 42;
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hutel) Homo
                                                                  Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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                          Gassenhuber, J. and
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                            Wiemann, S.
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BI032792
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
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1 (bases 1 to 183)

Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Magai, M.A., da Silva, M.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21;
                                                                                                                Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Ludwig Truck Prudente 109, 4 and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
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                      This sequence was derived
                                                                                                                                                                                                                                                                              Shotgun sequencing of the human transcriptome with ORF expressed
                                                                                                                                                                                                                                                                                                       Simpson, A.J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens (human)
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MR4-NN0188-220101-204-e01 NN0188 Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            No sl sequence available.
This clone (DKF2p586H092) is available at the RZPD in Berlin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Clone from S. Wiemann, Molecular Genome Analysis, German Can-
Research Center (DKPZ); Email s.wiemann@dkfz- heidelberg.de;
sequenced by DKFZ (German Cancer Research Center,
Heidelberg/Germany) within the cDNA sequencing consortium of
                                       Email: asimpson@ludwig.org.br
                                                              Fax: +55-11-2707001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BI032792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Please contact the RZPD: Ressourcenzentrum,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Email: poustka@mpimg-berlin-dahlem.mpg.de
This is the 5' sequence of the clone inse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Poustka A.J.
                                                                                 Fel: +55-11-2704922
                                                                                                                                                                                                                                        sequence tags
Proc. Natl. A
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/tissue_type="uterus"
/dev_stage="adult"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /clone_lib="586 (synonym: hute1)"
/note="Vector: pSport1; Site_1: Not1; Site_2: Sal1/MluI"
41 c 64 g 32 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mol_type="mRNA"
db_xref="taxon:9606"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GI:14439418
                                                                                                                                                                                                                                           Acad.
was derived from the FAPESP/LICR Human entry can be seen in the following URL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21
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Best Local (
                                                                                                          Seq primer: puc 18 forward
High quality sequence star
High quality sequence stop
                                                                                                                                                           Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=PM1&t2=PM1-NN1200-
011200-009-908&t3=2000-12-01&t4=1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               69
                                                                                                                                                                                                                                                                                                                                Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence tags
Proc. Natl. Acad. Sci. U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Shotgun sequencing of the human transcriptome with ORF expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brunstein, A., deOliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BF958930 184 bp mRNA linear PM1-NN1200-011200-009-908 NN1200 Homo sapiens cDNA,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
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                                                                                                                                                                                                                                                                                                       rel: +55-11-2704922
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200101-204-e01&t3=2001-01-22&t4=1)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (bases 1 to 184
                                                                               quality sequence start: 7 quality sequence stop: 184. Location/Qualifiers
                                                                                                                                                                                                                                                                                   +55-11-2707001
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organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
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ne_lib="NN0188"
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Pred. No. 44;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PUBMED
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Email: asimpson@ludwig.org.br

Email: asimpson@ludwig.org.br

This sequence was derived from the PAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtml2.pl?tl=MR4&t2=MR4-NT0140-080101-209-c09&t3=2001-01-08&t4=1)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
                                                                                                                                                                                                                                                                                                                               Seq primer: puc 18 forward
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                                                                                                                                                /organism="Homo sapiens"
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/note="Organ: nervous normal; Vector: pucl8; Site_1: SmaI;
Site_2: SmaI; A mini-library was made by cloning products
derived from ORESTES PCR (U.S. Letters Patent application
No. 196,716 - Ludwig Institute for Cancer Research)
profiles into the pUC 18 vector. Reverse transcription of
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100.0%; Pred. No. 44;
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Nery Match 100.0%; Score 21; DB 12; Length 185;	100.04;	Score 21; DB	12; Len	gth 185;		
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